

DECEMBER 1960

National
**SAFETY
NEWS**

EXCLUSIVE:

**Five NSC Sections Survey
Eye and Foot Protection**



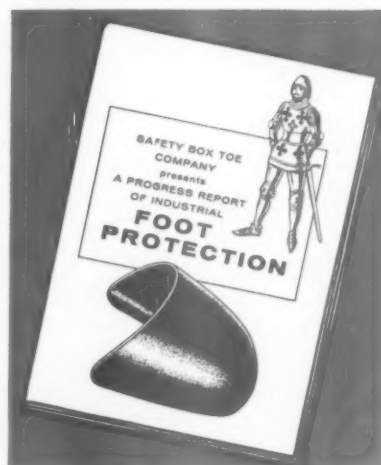
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THE COVER

Protected by safety goggles, this worker
operates a grinder free of eye hazard. (See
NSC Survey: *Five NSC Sections Probe Eye,
Foot Protection*—page 18 of this issue).

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National Safety News, December, 1960

National SAFETY NEWS

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Vol. 82, No. 6

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EDITORIAL

New Team

MEMORIES OF campaign partisanship are fading fast, and everyone is concerned with the smooth handing-over of the reins of government to another team. Reporters and commentators have had a lot to say about the hoopla surrounding the election of national leaders.

There is one ritual, however, which moves them to hold their fire. That is the peaceful walk which the outgoing and incoming Presidents take together into the White House. Peaceful transition is no joke.

The transition problem faces the National Safety Council's industrial sections not once in four or eight years, but *every* year. As surely as October, new men step into top section responsibilities. This is good—the past general chairmen are more valuable to the section for their experience.

One problem, though, has been the more or less accidental (excuse the expression) way the vice-chairmen have been trained for the job of chairman.

This year NSC's Industrial Department made a vigorous attack on the training problem. Early in November, before their first executive committee meeting as vice-chairmen, they traveled to Chicago for a formal two-day training period.

They liked it so well, they asked for more. They will meet again for a half day before the January Industrial Conference. By the time the May Industrial Conference rolls around, the vice-chairmen will be doing their share of the talking. In October, they will be ready for sectional leadership.

Many vice-chairmen gained first-hand knowledge of National Safety Council programs which they had heard of before, but weren't familiar with. Harry Porter, a veteran traffic engineer who heads the Council's Traffic Department, described the vast inventory of traffic safety activities conducted each year. Specialists in home, school, farm, labor, and motor transport safety described their programs. How NSC works with womens' groups and through radio, TV, and newspapers was a part of the curriculum.

Closer to their everyday job interests, the vice-chairmen heard from staff men in charge of publications, contests and statistics, association safety, and visual aids. There was even a session on parliamentary procedure to help them keep their meetings under control.

The training problem absorbs the hero of "Diary of a Safety Engineer" again this month, too. He hits a rough spot, provokes a little profanity from his second assistant, but learns a valuable lesson and seems to make progress.

The specter of a job to fill and no one to fill it is one that haunts managers in every kind of enterprise. The way to banish it is to introduce people to new responsibilities constantly. If they take to it, fine. Give them some more.

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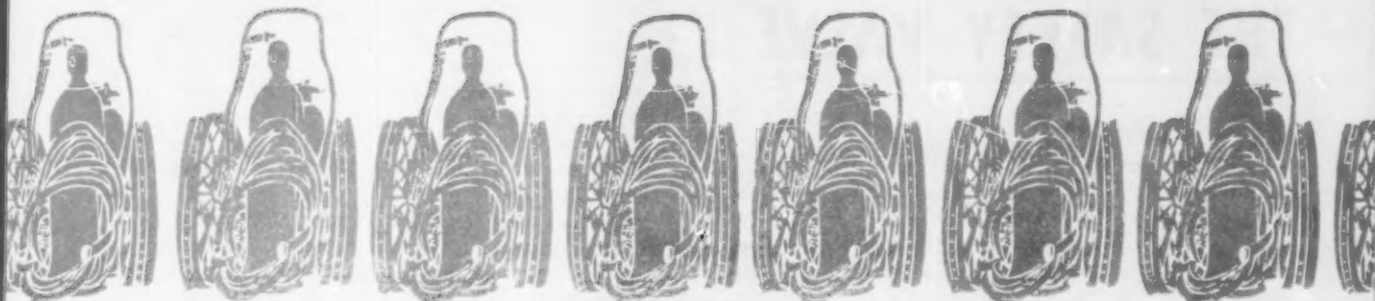
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—TERENCE

GOLDEN YEARS

JUST IN CASE you hadn't noticed it, the contents page lists a new editor. Jim Saul, my valued co-worker for the past three years, has taken over.

Simultaneously, Paul Jones, the Council's public information manager for the past 23 years, is also bowing out. Paul is the chap who has done so much to take the stuffiness out of safety communication, and his example encouraged me to let down my hair here and in *Employee Publications News Letter*.

Now, it's hard to write a piece like this without getting corny. Naturally, there are regrets at leaving the associations of 37 years, tempered with relief at escaping the deadlines that have been steady companions. But if I were starting over again, I'd choose the same path.

I wouldn't want to live my life over again. In war and in peace I've had some exceptional breaks and my luck might not hold a second time around. More times than I can count, I've been saved from the consequences of my mistakes, perhaps by some mysterious guardian angel. So often at critical moments a helping hand was extended.

While I was still a green cub I found myself suddenly in full charge of the NEWS. Thanks largely to the understanding help of Will Cameron, the Council's first manager, and Sidney Williams, his right-hand man in the Council's early years, I managed to pull through.

This job has had a lot of fringe benefits—far beyond group insurance, vacations, and coffee breaks. More important has been the association with fellow toilers in the safety vineyard, both on the staff and among the members. Their help and encouragement have made the job pleasant and rewarding.

How am I going to spend what have been euphemistically called the "golden years?"

That's what they ask every retiree. With a large 1894 house, I'm not likely to run out of work. I have enough projects lined up to keep me out of mischief for at least a year. And, of course, my wife and I hope to do a little traveling. We're lucky in having relatives in some interesting spots on this continent to visit.

A recent story about me listed gardening and woodworking as my chief hobbies. When you're interviewed you have to tell them something but I hope nobody comes around to look over my yard and workshop. With more time, though, I may be able to develop more skills. Maybe I'll even enroll

in one of the high school adult education classes.

Free lance writing? People who've never tried it think all you have to do is sit down at a typewriter and the stuff just flows. Really, I'm too old to start collecting rejection slips. But the Council has decided to continue sponsorship of this page and the *Employee Publications News Letter*, so I'll still have a place to sound off.

Writing this page every month has been one of my more enjoyable chores. Opinions expressed here are those of the undersigned, not necessarily those of the management. The Council has given me complete freedom of expression for the past 18 years, never complaining when I wandered away from safety or got into some mildly controversial discussions. For this latitude I've been deeply grateful.

I've also been grateful to those who took the trouble to write when they liked (or didn't like) something I'd said.

WHO WANTS TO GO BACK?

SOMETIMES an idea for copy pops out when you least expect it. While out visiting on a recent evening I picked up an album of *Gaité Parisienne* to read the foreword to Offenbach's saucy tunes.

"By the music of Offenbach, as by the waltzes of Strauss," said the blurb, "we are brought back to a civilization that was immensely superior to our own in most things that make life worth living."

Now I like the tunes of Offenbach and Strauss—better than most of the stuff on current platters. But, as for going back to those days, count me out.

True, you didn't risk being hit by an automobile when you ventured out on the street, but you were flirting with typhoid when you drank water or milk. And, if we can believe contemporary insurance ads, it's amazing how anybody survived train wrecks, shipwrecks, burning buildings, high-wheel bicycles, and runaway horses.

If we're losing sleep over the cold war, remember that Napoleon, the Czar, Bismarck, and Wilhelm II kept the world jittery during the last century.

Those were the days, too, when men, women, and often children, worked long hours in unsafe, unsanitary factories. Industry was dangerous and dirty; few thought anything could be done about it.

If living at the time of the Philadelphia Centennial was more leisurely and gracious, it was pretty stuffy, too. No *gentleman* ever appeared in public without a coat and a high stiff collar that was like a check rein on a horse. Even going without a vest was a social error. And they didn't have air conditioning then—or even electric fans.

Editing, except at the policy-making levels, is a shirt-sleeve job. How many of us could turn out our quota of copy under such conditions?

See you next month. Merry Christmas from the undersigned and all the NSC family.

Carman Fish



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AROUND THE COMPASS



ACTIVITIES

• PROGRAMS

• EVENTS

Community Leaders' Role Discussed

At the invitation of H. G. Mangelsdorf, Standard Oil Company (N.J.), newly elected NSC Vice-President for State and Local Safety Organizations, 47 persons attended a meeting of the NSC Board committee on State and Local Safety Organizations in Chicago October 18.

An explanation of the purpose of the committee and a report on the current status of citizen safety organizations were made, followed by a discussion of the role of leadership in community safety programs.

An all day session is scheduled for the day before the April 1961 NSC Board meeting.

Safety Conference Elects Officers

Elected to offices of the Conference of State and Local Safety Organizations at the annual conference meeting, October 17, 1960, were Forst E. Lowery, Greater Minneapolis Safety Council, chairman, and William E. Billings, Greater Cleveland Safety Council, vice-chairman. Harry H. Brainerd, Western Pennsylvania Safety Council, is immediate past chairman.

Elected for three year terms to the conference executive committee are Ivan A. Martin, Safety Council, Chamber of Commerce of Fort Wayne; Charles Hopkins, West Virginia Safety Council; Harold A. Seward, Lehigh Valley Council; and Earl Smith (re-elected), Baltimore Safety Council.

The new chairmen of the four conference regions are also new members of the executive committee. They are George G. Traver,

New Jersey State Safety Council, representing the Eastern Region; Norman Ledgin, Calcasieu Safety Council, Southern Region; W. Russell Hicks, Hamilton Safety Council, Midwest Region; and David Thompson, San Diego Traffic Safety Council, Western Region.

62 Attend Home Safety Workshop

The October issue of the Seattle-King County Safety Council's *Newsletter* reports that 62 persons, most of them safety chairmen for various civic groups, attended the 1960 Home Safety Workshop on October 7 in that area.

The workshop goal is to get as many clubs as possible to conduct at least one safety project a year. A team of project leaders will keep active to assist various groups in planning and executing their chosen safety programs.

Eileen Finley, workshop chairman, and Avery Willis, chairman of the council's home safety committee, are credited with the success of the workshop.

Off-The Job Award Announced

The Calcasieu Safety Council, Lake Charles, La., has announced an off-the-job safety award program to all companies in the area served by the council. The starting date is January 1, 1961. The program will be continued through December 31, 1961.

The company in each class finishing the year with the lowest average frequency rate for off-the-job injuries will be awarded a plaque. Each month's frequency rate is computed by a formula based on number of injuries, number of employees,

and the factor of exposure hours per employee per month.

The Award Criteria Committee of the Calcasieu Home Safety Division have agreed upon this definition of an off-the-job injury: any injury resulting from an accident away from company property and not occurring in the performance of duties for the company, said accident causing the injured person to lose one day's time or more from his job.

A standard report form for each accident has been adapted from the NSC and DuPont monthly summaries.

The program "SAFETY EVERYWHERE . . . all the time!" is recommended as a basis for off-the-job safety education.

Southern Governors Approve License Pact

The Southern Governors' Conference gave its approval "in principle" to efforts to develop compacts between states covering driver license issuance and revocation, and for other methods of improving highway safety.

The governors, at their 26th annual meeting in Hot Springs, passed a resolution urging the southern states to give close consideration to the final version of the compact, or compacts, which result from the study sponsored by the Western Governors' Conference.

It was recommended that the Committee on Highway Safety of the Southern Governors' Conference be continued with instructions to carry forward cooperative efforts for implementation of proposed highway safety compacts, and to study physical and mental aspects of highway accident prevention in cooperation with public health officials.

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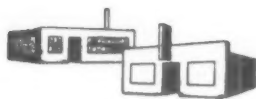
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SMALL BUSINESS and ASSOCIATIONS

By RAYMOND C. ELLIS, JR., and JOHN T. CURRY

Small Business Program Staff, National Safety Council

The Human Element, Too

During the 1960 National Safety Congress in Chicago the Associations Executive Forum of Chicago co-sponsored a workshop session with the NSC Small Business and Associations Division. Under the direction of chairman Frank Laderer, Nationwide Insurance Co., an effective exchange of valuable information resulted.

S. Barca, Can Manufacturers Institute, noted a new emphasis in their safety program. During 1959 it was found that 85 per cent of the disabling accidents reported by their members were more related to human than mechanical failure. Consequently it was decided by the institute safety committee that stress should be placed on developing good safety attitudes, in addition to maintaining a safe environment.

In discussing ways to motivate employees toward an effective safety attitude, it was suggested to use employees in pictures depicting the correct way of performing a job function.

Employees are stimulated to perform jobs correctly after posing for such pictures and seeing the resultant picture or poster displayed.

P. W. Logan, Liberty Mutual Insurance Co., Atlanta, Ga., said this technique is also being utilized by the Homebuilders Association of Florida.

Foreman safety training to develop motivation for safety was discussed by W. M. Allison, British Columbia Manufacturers Association. Emphasis aims at *correct* work practices (on the assumption correct practices are always safe). The program also utilizes worker participation in the drafting of safe practice codes relating to the em-

ployee's specific job responsibility. These are reviewed at the foreman and supervisory level.

Other suggestions on employee motivation included use of a tape recording booth. Many employees, hearing their own voice relating a safety problem, complaint or suggestion, become safety-minded.

Another idea presented for developing top management support of safety involves a one-page monthly bulletin directed to top management, or quarterly reports to the association board of directors.

One such report notes accident costs in terms of product output for the industry, interpreting how much profit and productive capacity are lost to disabling injuries. The report included safety suggestions from middle management personnel.

In many cases these items come from companies whose top executives are on the board of directors, and alert top management to problem areas that could exist within the individual director's plant.

The final section of the report estimates the number of plants that must operate an entire year to attain a profit volume sufficient to pay for the industry accident costs.

Plant Safety—Everybody's Job

(The following conveyor tips are provided as a safety service of the Conveyor Equipment Manufacturers Association, Washington, D. C.)

Conveyors are used more widely throughout industry than any other type of heavy machinery. Yet less than one per cent of all accident

—To page 56



At a safety workshop session in Chicago, Frank Laderer, Associations Executive Forum of Chicago chairman, directs discussion of the human element in safety. Ray Ellis, director of NSC Small Business and Associations Division, is co-chairman.



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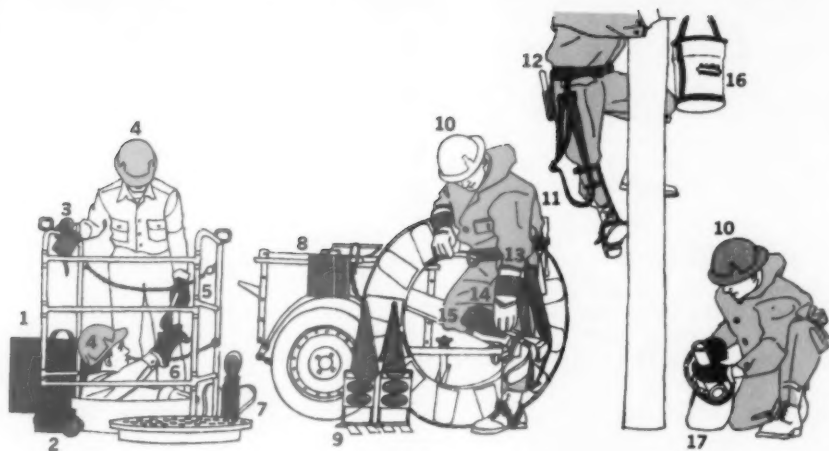
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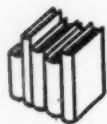
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11. Coated Rainwear.
12. Lineman's Belt and Pole Strap.
13. Lineman's Rubber Gloves.
14. Leather Protector Gloves.
15. Brooks Climbers.
16. Tool Bucket.
17. Line Hose Bag.

THE SAFETY LIBRARY



Reviews of books, pamphlets and periodical
articles of interest to safety men

By LOIS ZEARING, Librarian, NSC

Reviews Up-to-date Industrial Cardiac Study

The Heart in Industry. Edited by Leon J. Warshaw, M.D., F.A.C.P. Publisher: Paul B. Hoeber, Inc., Medical Division of Harper & Brothers, 49 E. 33rd St., New York, 16. 1960. 677 pp. \$16.

THIS RECENTLY published book can be considered a momentous contribution to the literature in the occupational medical field.

It is readily apparent that the people to whom Dr. Warshaw has turned for the reliable opinion expressed in the 19 chapters of this book have dealt with the subject in a masterful way.

Dr. Irving S. Wright, expressing himself in the foreword, states that Dr. Warshaw and his collaborators have analyzed the placement and full utilization of the cardiac in industry from many viewpoints and have presented a major contribution which should be carefully studied by all who have (or should have) an interest in this field.

The contributors, who speak competently and from the point of view of the expert, reveal a knowledgeable background of heart and blood vessel problems, and in addition evidence realistic appreciation of the significance of these as they relate to the environment of the worker, including even farm workers.

While doing this they have in effect interpreted in an unusually readable way the things that need to be known by the people who are concerned with such matters in industry. The book is directed not only at the physician newly acquainted in industry or the man whose experience is limited, but also at those people in personnel, employment, labor relations, etc., who should be concerned.

The bibliography is most impressive, and will aid those who

wish to pursue more closely the strictly medical aspects upon which are based observations and recommendations pertinent to special applications in industry.

While it is difficult to compare this work with similar studies intended to do the same thing, at least it can be said that it is an unusually comprehensive coverage of the subject, and it is recommended without reservation for individuals with interest or responsibility in this broad field.

H. GLENN GARDINER, M.D.
Medical Director,
Inland Steel Company,
East Chicago, Ind.

BOOKS AND PAMPHLETS

Chemical Industry

Emergency Organization for the Chemical Industry. 1960. 3pp. Manufacturing Chemists' Association, Inc., 1825 Connecticut Avenue, N. W., Washington 9, D. C. (Safety Guide SG-4). Price 20¢.

Fertilizer Grade Ammonium Nitrate: Properties and Recommended Methods for Packaging, Handling, Transportation, Storage and Use. Rev. 1960. 24pp. Manufacturing Chemists' Association, Inc., 1825 Connecticut Avenue, N. W., Washington 9, D. C. (Manual Sheet A-10) Price 50¢.

Gas Industry

Natural Gas Pipelines. Rev. September, 1960. 23pp. Processed. Association of Casualty and Surety Companies, Sixty John Street, New York 38, N. Y. (Special Hazards Bulletin Z-69)

Handling Materials

Mechanical Handling of Materials. 1960. 29pp. U. S. Department of Labor, Bureau of Labor Standards, Washington 25, D. C. (Bulletin 219)

Health Hazards

Control of Electrical Shock Hazards. 1960. 15pp. U. S. Department of Labor, Bureau of Labor Standards, Washington 25, D. C. (Bulletin 216)

Marine Industry

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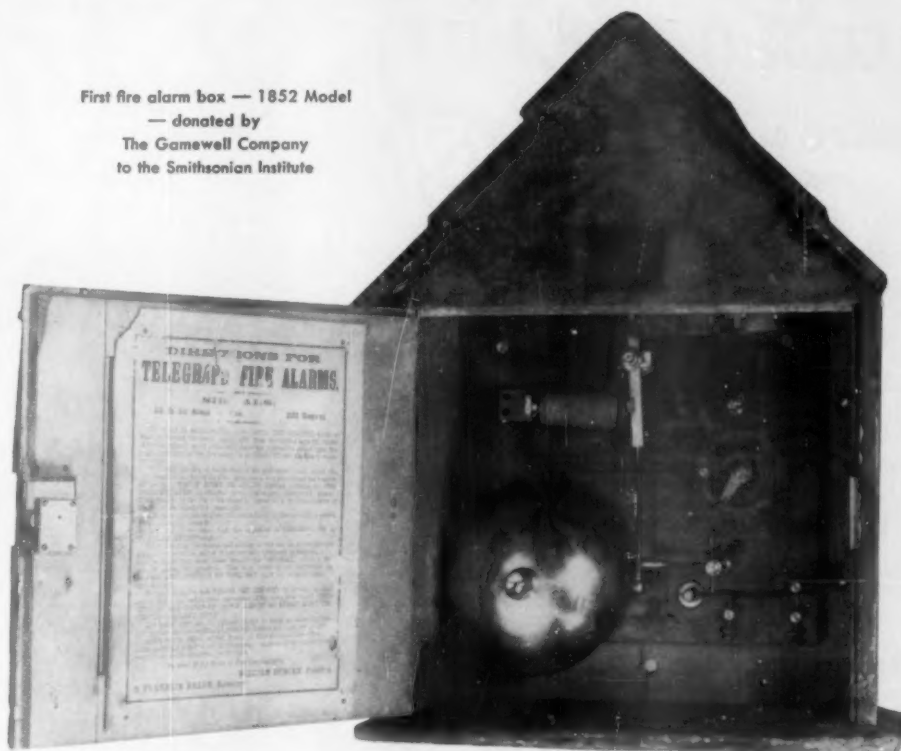
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A century of positive protection...

More than a hundred years ago, the wooden, hand-cranked Gamewell Fire Alarm box shown above was the most dependable fire alarm device of its day. And, during the years since then, Gamewell has consistently pioneered in the manufacture of emergency signaling systems... with thousands of municipal and industrial systems in daily service.

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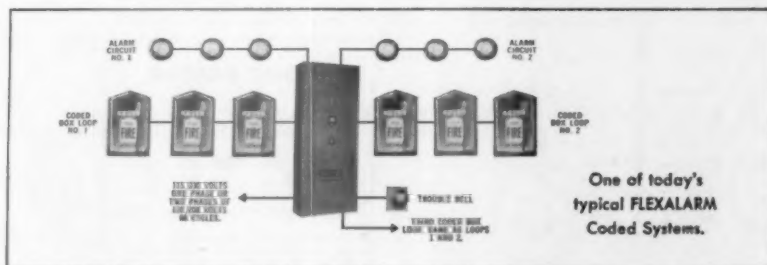
and other central fire stations. Connected to sprinkler systems, FLEXALARM systems automatically transmit an alarm on water-flow preventing loss from fire and water damage. These systems provide complete coverage.

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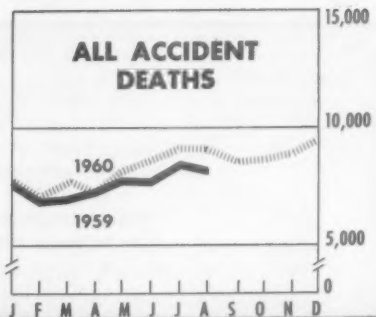
Gamewell

FIRST...WHEN SECONDS COUNT



THE ACCIDENT BAROMETER

Prepared by the Statistics Division
National Safety Council



THE NATIONAL ACCIDENT FATALITY TOLL

	August			Eight Months		
	1960	1959	Change	1960	1959	Change
Total	8,150	8,100	+1%	60,900	60,400	+1%
Motor-Vehicle	3,470	3,500	-1%	24,010	23,860	+1%
Public (except M.V.)	1,700	1,800	-6%	11,600	11,800	-2%
Home	1,900	1,800	+6%	18,000	17,500	+3%
Work	1,300	1,200	+8%	9,300	9,250	+1%

WORK INJURIES

21 NATIONAL SAFETY COUNCIL CONTESTS

Disabling Injury Frequency Rates

	1960	1959	Change
August	6.92	7.17	-4%
Eight Months	6.24	6.45	-3%

MOTOR-VEHICLE DEATHS

EIGHT MONTHS
1960

CHANGES IN DEATHS

Number of Reporting States

24	UP from 1959
1	SAME as 1959
24	DOWN from 1959

Number of Reporting Cities Over 10,000 Pop.

300	UP from 1959
180	SAME as 1959
245	DOWN from 1959

GREATEST PER CENT REDUCTION IN DEATHS

States	Percent Reduction	Cities Over 200,000 Pop.	Percent Reduction
Rhode Island	-35%	Omaha, Neb.	-59%
Nebraska	-25%	Providence, R. I.	-50%
New Hampshire	-24%	Grand Rapids, Mich.	-50%

HOME AND PUBLIC DEATHS

EIGHT MONTHS
1960

HOME DEATHS

UP from 1959:

Firearms
Fires, burns
Poisonings

DOWN from 1959:
Suffocation

Home

AGE GROUPS	Change from 1959
0-4	Up
5-14	Up
15-24	Down
25-44	Up
45-64	Up
65 & Over	Up

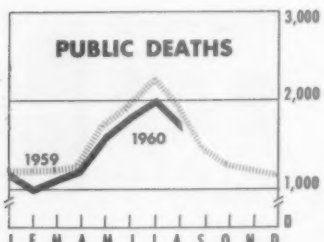
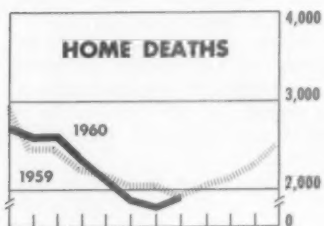
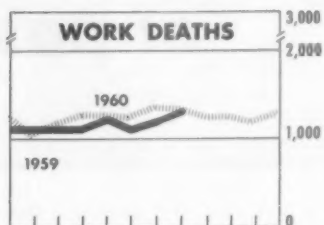
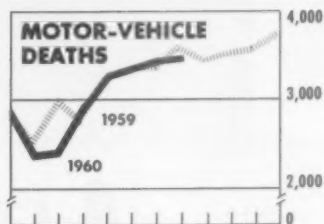
Public

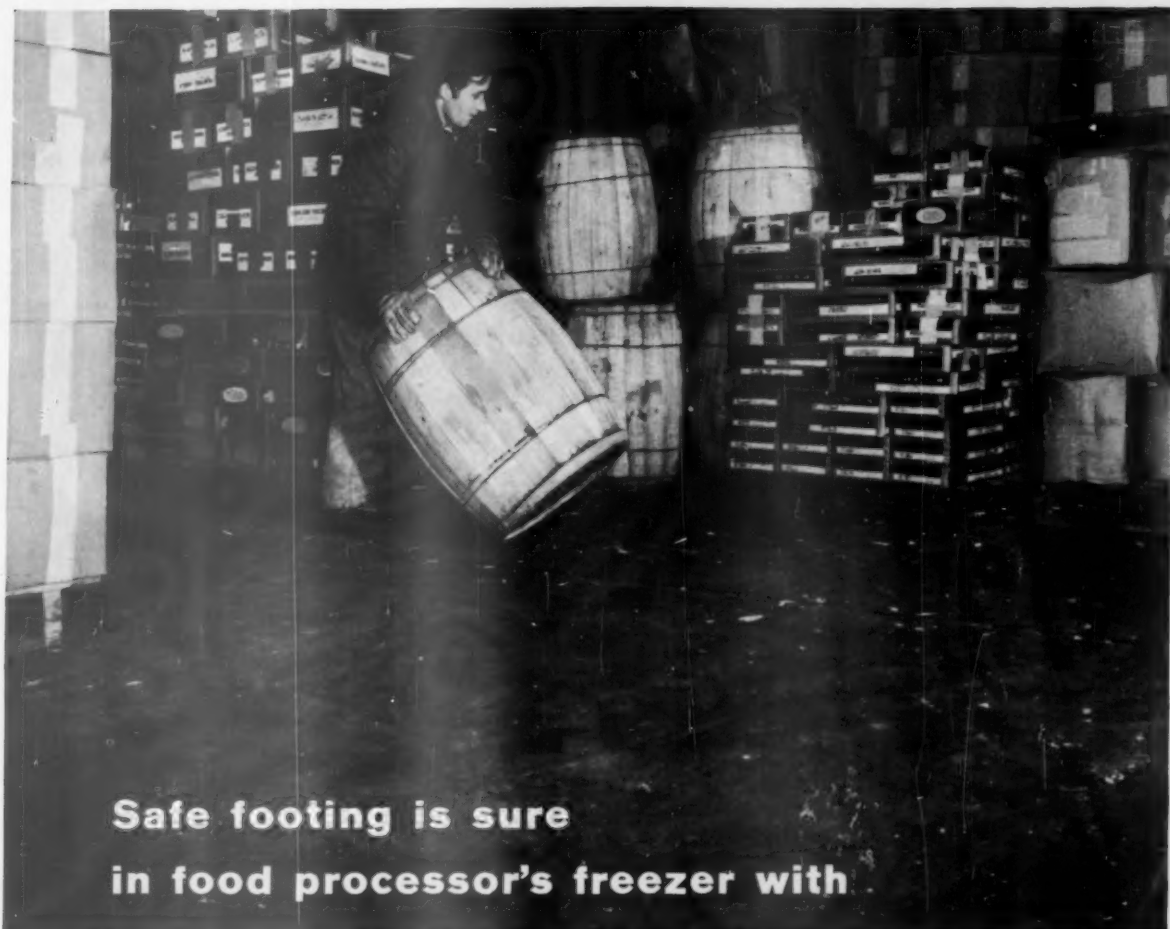
Down
Up
Down
Down
Up
Down

PUBLIC DEATHS

UP from 1959:

Transportation
Falls
Firearms





**Safe footing is sure
in food processor's freezer with**

A.W. ALGRIP abrasive flooring

Bits of food just naturally fall from barrels and open cartons onto the floor of this freezer at the warehouse of a nationally-known frozen food processor, but A. W. ALGRIP eliminates slipping and sliding . . . helps prevent accidents.

A. W. ALGRIP rolled steel floor plate is produced by Alan Wood Steel Company under a patented process by which an abrasive—just like the kind used in grinding wheels—is embedded to a controlled depth. It becomes an integral part of a tough steel plate.

A. W. ALGRIP can be used as independent flooring . . . or as flooring overlay, on level or inclined surfaces. Put your plant on a safe footing, with A. W. ALGRIP . . . Approved for Safety by Underwriters' Laboratories. Write for Bulletin AL-S1.

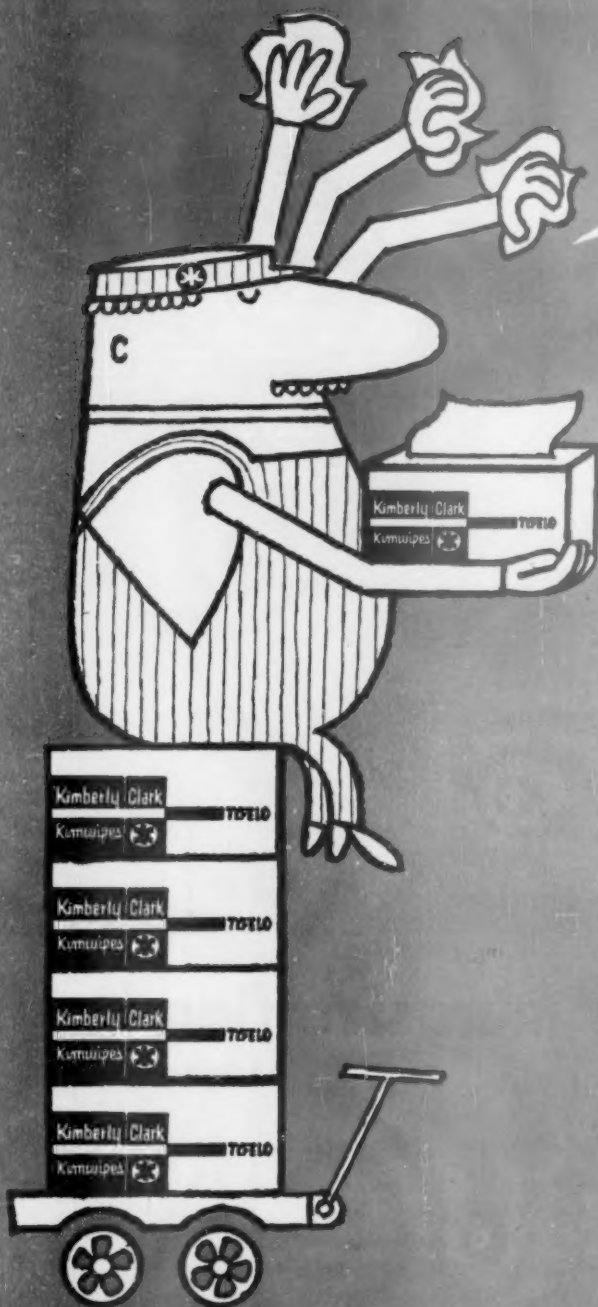


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Try 'em
before
you buy 'em!

Free package of Kimwipes® DISPOSABLE WIPERS

Mail the coupon today so that we can rush you your FREE box of 100 Kimwipes disposable wipers! We want you to prove to yourself the important role these large wipers play in contributing to plant safety and employee satisfaction.

Completely sanitary Kimwipes reduce skin infections, often caused by unclean rags or cloths.

Soft, smooth Kimwipes reduce frequency of small cuts and scratches due to imbedded metal that can remain in laundered or re-used rags.

Tough, yet safe, Kimwipes eliminate the hazard of fingers being drawn into moving machinery. They will tear with a strong pull—whereas cloth rags may pull hands into equipment.

Kimwipes are available, too, in handy 5" x 8 3/4" size for wiping goggles at safety stations. Packed 240 to a carton, these soft, strong wipers pop up just like KLEENEX tissues.

By the makers of KLEENEX® tissues...

Kimberly Clark

PRODUCTS



KIMWIPES DISPOSABLE WIPERS	
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An assessment of safety activity
in Washington during
the eight years of the
Eisenhower administration



8 Years of Safety

By HARRY N. ROSENFELD
Washington Counsel, National Safety Council

WITH A NEW national administration to take office next month, it is appropriate to review safety legislation in Washington during the eight years of President Eisenhower's administration.

One way to assess such a situation is to compare what happened at the beginning with what happened at the end of the administration. In 1953 there were two major developments: enactment of a federal charter for the National Safety Council, and the passage of the Flammable Fabrics Act.

Eight years later the roll call was much longer. Congress passed the Driver Register Bill; the Federal Hazardous Substances Labeling Act; the Color Additives Amendments to the Food, Drug, and Cosmetic Act; a directive to the Public Health Service for a two-year study of automobile exhausts; and a precedent-making start on federal financial support for plans to cope with mass transportation in metropolitan areas.

During 1960 the President also included in his Economic Message to the Congress an analysis of the injury-frequency rates in manufacturing industries and formalized the President's Committee on Traffic Safety.

These remarks were made before the Annual Meeting of Managers of State and Local Safety Councils, in Chicago on October 15, 1960.

This report is an information service. Publication does not imply National Safety Council approval of or opposition to any legislation mentioned

The platforms of both major political parties for the current presidential election brimmed with safety proposals on a variety of fronts. In the international arena, a revision was proposed in the International

Convention for Safety of Life at Sea.

It is difficult to choose among the many administrative actions on safety in 1960, but some are noteworthy.—To page 58

The Big Debate

THE BIG QUESTION, Republican or Democrat, is how to keep from getting knocked off during the next administration.

With 90,000-plus accidental deaths each year, some 350,000 sweet, lovable taxpaying type citizens will have been dispatched four years hence. This is not only running things into the ground, but it is also making a run on the treasury.

We wonder what's the matter with kids today, but we're teaching them to live dangerously. They learn to operate on "Medic," skin dive on "Sea Hunt," shoot with "Colt 45" or "Rifleman," play bad-guys and good-guys with the "Untouchables," travel by "Wagon Train" or "Riverboat," go on "Copter Patrols," compete with "Dennis the Menace" and "Quick Draw McGraw," and gamble, eviscerate, and clobber via many other bits of so-called entertainment.

We complain of all this violence on TV; yet it's like a Bloomer Girl picnic compared to the injury statistics at home, on the road, and elsewhere. Maybe it's better to keep the kids in front of the TV set observing violence than up and about some place partaking of it first hand with Mom or Dad.

The tempo of the day is action and brinksmanship. What with desk pounding, shoe waving, and horn honking, we common folk have to tread nimbly or be gobbled up.

We set up a daily regimen of energizers, tranquilizers, stay-awake pills, and sleeping tablets. We get our political philosophy by reading "Pogo," release our frustrations through "Big George," and get entertainment and relaxation from "Huckleberry Hound" and Martini sipping. This doesn't quite cut the umbilical cord though.

We must glom onto a philosophy of self-discipline and adhere to it as rigidly as we do our recipe for mixing up gin dips. Most of us know enough about safety to be able to debate it intelligently. It's too bad we cut our own throats because we don't practice what we're able to preach.

ROBERT D. GIDEL

Why use eye or foot protection equipment? This Council inventory offers answers from 332 industrial plants



Five NSC Sections Probe Eye, Foot Protection



WHAT GOOD ARE safety shoes to industry? Why promote safety glasses in a plant? Are the makers of protective equipment the only ones who profit, or are there real benefits for the worker on the production line and to the management bearing the financial brunt?

To find prevailing practices among its membership, the Council investigated eye and foot protection usage in five industrial sections.

The resulting report covered eye and foot safety in 332 plants in every state of the Union. These operations have a total of 480,267 employees, averaging 1,446 workers per plant.

What response did safety men give to this survey? These quotes from returned questionnaires indicate the tone of replies, for example, on effectiveness of safety glasses at their plants:

"Five eyes saved in five years."

"29 eye cases in 1956—9 eye cases in 1957."

"Cut cost 90 per cent in 1957."

"12-15 injuries per year to none."

"Was \$95 per eye injury—now \$2.90 per eye injury."

"From 3 per million man-hours to none in 1955-1957."

These statements demonstrate the success with which companies in the five queried sections used eye protective equipment. For insight into attitudes toward safety shoes, here are comments by member firms on foot protection and disabling injuries:

"In 1946, 52 foot injuries per 4,000 employees; now 14 foot injuries for 10,000 employees."

"Approximately 12 toes saved annually."

"Fractured toes no longer appear on safety record."

"1.5 injuries per million man-hours in 1947-54 to .5 injuries per million man-hours in 1955-1957."

Why such exultant remarks? Perhaps details requested in the inventory will give background perspective. For instance, the questionnaire asked: "Have operations in all departments been surveyed to determine need or personal protective equipment?"

Eighty-seven per cent of plants replied they had been surveyed for this purpose, while about a tenth maintained they hadn't. (Differences between total percentages here and

100 per cent are a "No Answer" category.)

Half of the plants prepare job descriptions and a few more than a quarter of returning questionnaires say job descriptions specify protective equipment.

When we come to the question of who's responsible for determining where and when personal protection equipment is to be used, the inventory points to safety departments in more than a third of the plants. Superintendents or plant managers and foremen share this responsibility in about a fifth of operations.

However, other personnel also had this chore: the safety committee, vice president, department head, plant engineer, industrial relations manager, personnel manager, and the plant nurse.

But who sees that this equipment, once purchased, is used? Foremen in two-thirds of the plants reporting have this obligation, followed by the superintendent or safety department in about a tenth of the plants. The department head, safety committee, the unions or the company nurse take on this duty in various

operations surveyed by the Council.

A good many firms say emphatically that wearing of this equipment is a *must*. Eye protection is mandatory for 80 per cent of the plants in specific operations, in 38 per cent of the firms in specific de-

partments, and plantwide in about a fourth of the units.

Foot protective equipment is required in 35 per cent of reporting organizations for specific operations, in 18 per cent of plants in specific

—To page 74

WHO BEARS EYE PROTECTION COST?

	Company	Employee	Misc.*
Prescription Lenses	38% of plants	27% of plants	35% of plants
Replacements	43% of plants	27% of plants	30% of plants
Eye Examination	10% of plants	71% of plants	20% of plants

*Combination cost-sharing plans.

EYE AND FOOT PROTECTION

	Use Is Mandatory	
	Eye Protection	Foot Protection
Specific Operations	80% of plants	35% of plants
Specific Departments	38% of plants	18% of plants
Plant-wide	26% of plants	27% of plants

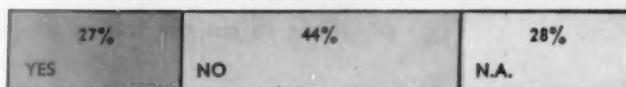
OPERATIONS SURVEYED FOR PERSONAL EQUIPMENT NEED?



OCCUPATION WHERE PRESCRIPTION GLASSES FURNISHED



DESCRIPTIONS SPECIFY PROTECTIVE EQUIPMENT?



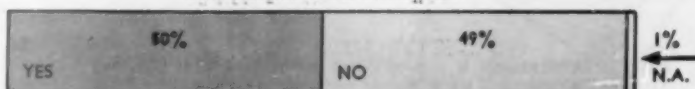
COMPANY ADVISES PRESCRIPTION LENSES



EMPLOYEES CHOOSE STYLE OF GLASSES



JOB DESCRIPTIONS PREPARED?



(N.A. is "No Answer.")

This article is based on information developed by the NSC Inventory of Occupational Accident Prevention Activities.

Paul Schleich of the Industrial Department staff is conducting the inventory among 15 of the Council's industrial sections. Questionnaires for this particular survey were sent to members of five Industrial Conference sections: Rubber; Cement, Quarry, and Mineral Aggregates; Glass and Ceramics; Meat Packing, Tanning and Leather Products; and Aerospace.

Work forces in this quintet ranged from 15 employees in a Glass and Ceramics plant to 75,000 workers in an Aerospace operation, with a wide numerical range among the five sections.

Products and processes involved include: glass brick and tile, containers and glassware; cement and crushed stone aggregates; aircraft and rocket engines and electrical guidance systems for missiles; tires, hose, extruded rubber products and synthetics; meat processing, shoes, gloves, furniture, automobile upholstery, and others.

LATEST MERGER

OFF-JOB

ON-JOB



By **KARL T. DUTSCHMANN**



Industry takes a leading role in stepping up the tempo of safety work in New York State. Several companies have begun to conduct traffic safety programs to cut the toll of off-job injuries.

ONLY IN THE PAST few years have we begun to realize nationwide that the frequency of off-the-job disabling injuries was from 20 to 30 times greater than disabling injuries occurring on the job.

Even though people in the safety field and in personnel work may have suspected this, they couldn't prove it until industry started to accumulate frequency rates for such injuries.

In the Bell System we started to compile system statistics in 1958, although individual companies in the system started to keep these statistics as far back as 1953.

KARL T. DUTSCHMANN is vice president of the New York Telephone Company. This article is based on his remarks before the Annual Meeting of Managers (of local safety councils) at the 1960 National Safety Congress.

We—you and I and every person in safety work as well as in forward-looking management and leaders in government—are now at the point where we are convinced something must be done to drastically reduce this alarmingly high rate of off-the-job disabling injuries.

With more leisure time and recreation—small boating, water skiing, and skin diving—plus greater use of power equipment for the do-it-yourselfer and the housewife, I shudder to think what the rate of such injuries could climb to if something isn't done to get safety awareness across to every man, woman, and child in our country.

Progressive increase of the power of the automobile and the building of more and more highways can foster a monster, devouring and mutilating bodies throughout the land, if we don't do something to get the idea of safe driving and

NEW YORK STATE CITIZENS INTEND TO . . .

- 1 Get the cooperation of business and industrial companies in conducting traffic safety programs among their employees.
- 2 Encourage civic organizations to promote traffic safety.
- 3 Conduct a program of public education and information.
- 4 Promote the formation of effective local traffic safety organizations where they do not exist, and aid existing organizations.
- 5 Support sound government policies in promoting traffic safety.
- 6 Stimulate driver education programs through public and private schools.

courtesy on the road into the bloodstream of every person behind the wheel of a car.

Concerned with these problems, the New York State Citizens' Council on Traffic Safety was organized in 1957. Last year it was incorporated into a nonprofit educational organization. The following is a brief review of off-the-job safety promotion plans of the New York State Citizens' Council on Traffic Safety and the Greater New York Safety Council, plus related efforts of the New York Telephone Company.

To get the work of the New York State Citizens' Council started rapidly, it has been decided to concentrate in two major areas of the program:

1. Obtain the cooperation of business and industrial companies in conducting traffic safety programs among their employees.

2. Encourage civic organizations to promote traffic safety.

Work has started in these fields. A "package" has been developed for use by employers in conducting an off-the-job traffic safety program among their employees.

The council believes they can demonstrate to employers that it is in their interests from an economic as well as a humanitarian standpoint to conduct such a program.

The package consists largely of National Safety Council material integrated with other materials to form a complete 12-month program.

—To page 83

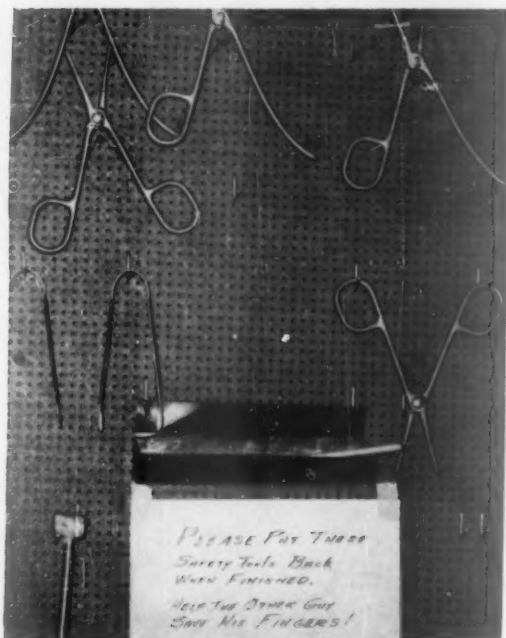


The off-the-job safety kit developed by the New York State Citizens' Council for Traffic Safety is being supplied by the National Safety Council at a special low price because of the large volume already ordered by several large companies.



▲ Efficient in preventing hand injuries to operators of industrial type hand trucks, yet of practical simplicity. Here metal disks cut from 1/4-in. stock have been welded at the ends of the tubular handles. Operator doesn't run the risk of crushed or pinched hands when working in close quarters where the handles can come in contact with solid objects.

COST: Several minutes of a welder's time.



▲ Use of this means of keeping safety tools handy is of considerable help where presses are used for experimental development work. Since the presses are used for a variety of products, a corresponding number of tools are needed. Prior to installation of the pegboard, the tools were often not available when needed.

COST: Board and fittings—\$2.

It's CHEAPER

PROVIDING PROTECTION to the operators of power machinery often necessitates complicated and costly safety measures. Wherever the expense helps safeguard a worker, it is justified.

The ideas presented here for inexpensive protection measures are not intended as "make-do" or short-cut methods, but simply illustrate that common sense and ingenuity can often devise positive guarding for relatively little labor or money.

Although gleaned principally from the experience of safety men in the power press and forging industries, applications of these ideas are numerous. They may suggest adaptations for slightly different situations.

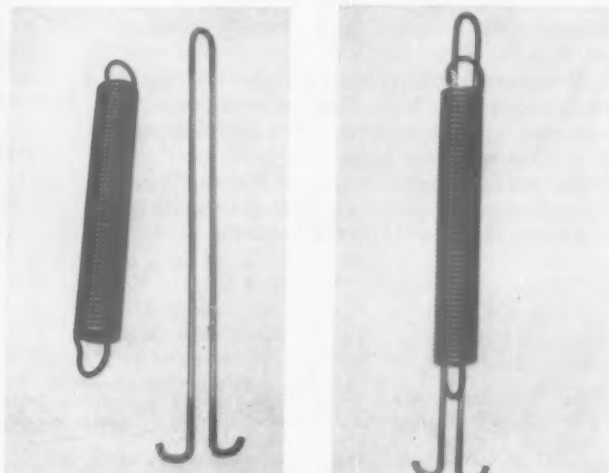
None of the ideas illustrated cost their makers more than \$5, and several cost nothing at all. Most can be made right in the shop from scrap or easily obtainable materials.

Willard A. Dudley, safety engineer, Kodak Park Works, Eastman Kodak Co., Rochester, N. Y., who compiled the ideas and illustrations, judged them for conformance to the revised American Standards Safety for Power presses. They are based, directly or indirectly, on the premise that maximum safety can be obtained by providing the means which make it unnecessary for the operator to place his hands or any part of his body in a point of operation.

These are, in short, cheap safety devices which work, which are proven, and which are doing an effective job of protecting men in plants across the nation every day of the week.

▼ Here is a simple method of keeping the shop from resembling a firing range. The view on the left shows a rigging spring used on steam hammers, and the device to keep it in place in case of breakage under strain. At right the two are assembled for installation on the hammer. The retainer is simply a barbed hairpin made of cold rolled steel stock, and should be longer than the spring. In case of breakage the hooks of the retainer will keep the sections together.

Cost: \$2 to \$3.

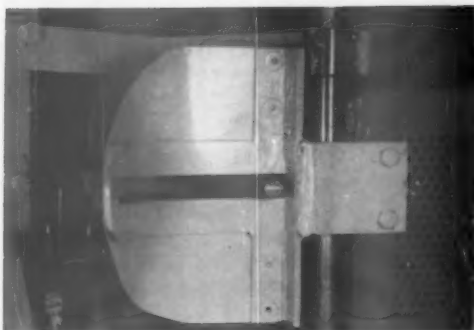


Than You Think!



◀ Formerly this shear die had an opening which would allow the insertion of more than the pieces to be trimmed. Since the operation is jugged, visibility of the point of shear is not necessary. A simple sheet metal guard was installed which allows entry only to the angle irons to be cornered. Where jugging is possible, the use of similar, easily made guarding devices can often be employed, utilizing sheet metal.

COST: \$3.14 in material and labor.



◀ When constructing an expanded metal fence to guard the sagging loop of coil steel feeding into a shear-press, one firm added this special protective device. When the gate of the fence is opened for maintenance, the slotted plate shown engages the machine power shutoff lever, making the maintenance area safe.

COST: About \$3.



▲ Since lever brake adjustments on power presses can strike toward the operator if tension bolt fails, one safety man installed a guard formed of flat bar bolted in place over the arm, limiting its arc.

COST: \$3.50 per machine.



◀ Where rolls of steel or other material are stored on railroad tracks to facilitate handling, they can be kept from rolling with a simple chock made by cutting a T hole in a scrap of boiler plate. Where unbound rolls are used, the chock can be used to keep the free end of the metal from springing up or presenting a dangerous sharp edge. As access to the rolls is desired, the chocks are simply slipped along the rails. Similar chocks might serve as safety devices where other types of T-rails are used.

COST: Pennies for material.



▲ The fact that price need not be a gauge of the effectiveness of safety devices is illustrated here. The safety lens glasses provided to protect the eyes shown have done their job. Admittedly, they need replacement—but both the worker and management can be thankful for it. Yet safety glasses must be counted among the wide variety of protective equipment and devices with limited cost. And since eye hazards are found throughout industry, the money that bought these glasses was one of the safest two-dollar bets ever placed.

COST: About \$2.

December 6, 1960

ELEVEN MONTHS ago, I hired Bert Harding as my second assistant. He was at the time a subforeman in the Lenners Pump shop. He had no technical education, but he had a deep interest in safety and a demonstrated competence in dealing with people in the shop situation.

In the early months of the year, I had many occasions to rejoice that I had Bert on my staff. He was raised in this area, and he came to work on the project in its early days as a young punk just out of military service. He understands the local people of his own generation, and he is much more influential with them than either Lee (my other assistant) or I.

On the other hand, in those early months, some serious weaknesses in Bert's work showed up. He was an unreliable inspector, usually inclined to be lax, and then, when I jacked him up on this, going too far in the rigorous direction.

And sometimes I felt he was a poor representative of the safety department—and the time when he was heard to lecture the graduate chemical engineer at McLay and Blaine on a toxic fume problem.

I hadn't meant Bert to seek out the engineering staff and pass on to them the overly simplified physiochemical lecture I'd given him. It took quite a bit of diplomacy on my part and Lee's to smooth the ruffled feathers of that engineer.

I did not, of course, expect any serious engineering work out of Bert. What design and analytical work I did not do myself, I turned over to Lee automatically, and Bert knew he was expected to cover Lee's inspections when Lee was engaged at the drafting board or desk.

I found myself, when fall rolled around, well pleased with the safety staff situation. Bert was gradually getting the rough edges smoothed out. His grammar wasn't perfect, but it had improved. He didn't use much more profanity than Lee or I did. He was settling into the inspection routine better.

About a month ago, Bert asked me a question about electrical circuitry—a tough and complicated question. I sat down with him, and we worked out the answer together. He had a grasp of the subject that surprised me—though there were



(fiction)

BY BILL ANDREWS

Our Safety Engineer receives his comeuppance when Bert Harding, the newest assistant, presses to use off-job learning and is backed by Lee, the other assistant.

Intra-Staff Headaches

some obvious things he didn't see. After I had given him the answer and he had understood it, I happened to ask, "I don't place the setup you described. It isn't at Lenners, is it?"

Bert shook his head. "No", he said, "it isn't on the project."

I was thunderstruck. "Bert, what are you up to? You aren't freelancing as an electrical expert are you?"

Bert looked embarrassed. "Heck, no, boss. I guess I shouldn't have bothered you at all. It's just this darned course I'm taking. Boy, is it tough!"

"Correspondence course on electrical engineering," Bert added. "You knew I was trying to improve myself when you hired me. You said that was one reason you did hire me."

"I knew you were taking some math," I said. "But I didn't think you were ready for a full-fledged engineering course."

"Maybe I'm not," Bert said. "But I can handle the math they've thrown at me so far. What I probably needed more of was basic physics. Anyhow, that's what my wife tells me. So I'm trying to bone up on that, with the help of the

high school physics teacher—he's a cousin of my wife's from over by Loudenberg."

I was pleased at Bert's ambition, and I loaned him some books. Lee got interested, too, and began teaching Bert elementary drafting.

I hadn't thought through the implications of these developments until yesterday. Lee, Bert and I were sitting around my desk for our Monday morning session to plan the week's work. I had only two special items to refer to the boys—a rash of horseplay incidents in the transport pool's shops, and several problems with the main circuit breakers at the powerhouse. Without thinking twice about it, I told Lee to get onto the electrical problem and Bert to go over and talk to the boys at the pool shops.

Bert waited a moment, then said, "Boss, I've never ducked a job for you yet, have I?" I admitted he hadn't. "Well," he went on, "let me ask a favor this once. Let Lee handle that horseplay stuff, and let me see what I can do on those breakers. I won't get up in any trouble. I'll check back with you before I say anything to the powerhouse supervision."

"Bert," I said, "I know you're

interested in this problem. I'm glad you are. But, boy, if you think one uncompleted course in electrical engineering qualifies you to . . ."

I stopped dead. If I had been double-jointed, I'd have kicked myself hard. Bert's face had dropped a foot. I'd violated what is just about the first of all human-relations rules—I'd attacked an insecure man's self-respect.

What's worse, I had done so absolutely needlessly. I could just as well and just as truly have said to Bert that I had to have him deal with the horseplay among the transport grease monkeys as to tell him I wouldn't trust him with the electrical problem.

Bert's dismay and grief at my rebuff began to turn to irritation. "Well, if you haven't any confidence in me, okay. But I'm damned if I can see how the project can get any good out of my efforts to study if you don't let me try applying what I've learned." He slammed out of the office.

Lee was too discreet to comment. Instead, he bent over a drawing on his desk with exaggerated preoccupation. "Come off it," I said. "You think I blew one, don't you?" Lee put the plan down and looked me straight in the eye. "It sounds to me as if you think you did," he said.

I tried to defend myself, saying, "Bert's pressing his luck. He hasn't been a year in the department, and he's trying to prove himself a professional-level technical man. Why can't he take it easy? He knows I want to bring him along."

"I wonder if he does," Lee said. "And I wonder if you really do want to bring him along?"

I launched into a spluttering tirade attacking Lee for presuming to question my motives, in the course of which I pointed out all that I had done for Bert.

Lee waited quietly and calmly until I finished. "Boss," he said, "I've worked for you for three years now. I know how good you are—and that's pretty good. I know how seriously you take your job—and that's very seriously. But, boss, don't try to sell me the idea you are the sentimental executive who spends his time thinking up ways of helping his assistants grow. Boss, that just isn't the way you work."

"I've got no complaints, boss. I came with you because I was told you were among the top men in the business and because I was told you were a fair man. I figured I stood a good chance of learning this business from you and then going on, either in some other shop or here after you retired, as a top safety man myself."

"I figured that way, and I still figure that way. Part of what makes you a good boss for me is that you don't do me any favors. I know I have to deliver, and that's good."

"But I'm beginning to think you didn't know what you were doing when you hired Bert. And don't forget, you did hire him—he didn't high-pressure you to get this job. You knew he was a roughneck with a brain, a guy who could deal with the laboring men and the supervision of this project. I think you figured he was something of a genius in human relations—and I think you were right if you did figure it this way."

"Oh, you felt pretty noble about hiring Bert with all his educational shortcomings. You patronized him—and don't think he didn't know it!"

"But what you didn't let yourself realize was that Bert was bound, since he is intelligent and ambitious, to want to move ahead. If you were going to use him, he was going to use you. I've known since the first month on the job that this conflict between you and him would come—the conflict over whether he would stay in the narrow role you cast him for when you hired him, or whether you would let him grow up in safety work."

"Boss, you can't win this argument. You can't have him on your terms. Either you let him grow, or he'll be off down the road—and if I'm any judge, he'll have no trouble moving ahead in safety work."

I was listening to Lee, but I wasn't liking what I heard, and I wasn't buying it all. But I saw an opening in Lee's last remark, and I snapped, "I suppose you'd help him get another job, too."

Lee smiled at me, "You bet I would." Then he turned serious again, saying, "Boss, Bert needs three years more of what you and I can give him and what he can get from books. And we need three more years of what Bert can give us. But if we're going to buy those three years of his life, we're going to have to pay his price—letting him gradually try his hand at the technical side of the job."

"He won't be much good at it at first, but we can check him and keep him out of trouble. Meantime, you know you need him to do jobs out on the shop floor that neither you nor I can do half as well."

I walked out on Lee shortly after that, and when we met later in the day we talked only straight shop problems. But I didn't sleep well last night, and when I found Lee alone in the shop this morning, I said, "You talked hard yesterday. I'd probably fire you if I didn't think you were about half right. But tell me, what's your angle? Or were you being as noble in sticking up for your colleague as you say I'm not?"

Lee laughed—a good healthy laugh. "Never fear, boss, I'm not the noble type. I've made my career bet, for the moment, on the safety department of this project. I need you successful, because I plan to succeed you some day when you retire. And I need Bert happy because he contributes to your success."

I let that soak in for a moment, and then I closed the circle of the issue: "So, you see the trap I'm in. Now you be the good assistant and get me out of it. Your assignment, beginning now, includes the professional development of Bert Harding. And I hope you do it so well he beats you out of my job!"



"I think that guy's after my job."



Most dangerous job in system is working on "live" third rail. Here, welder is "live," protected by rubber mat underneath. The record: no electrocutions.

Made-To-Measure Safety

By **CHARLES L. PATTERSON**
Chairman, New York City Transit Authority

Many brilliantly conceived safety programs are worthless unless they reach workers. NYCTA urges tailor-made, realistic approach

SOME years ago one of our shop supervisors, walking by a lathe at which a workman was turning a metal part to size, got a peculiar feeling that something was wrong. It was nothing he could put a finger on. The man was properly goggled and following approved procedure. But the supervisor had an almost intuitive feeling that something was wrong in the picture.

A half hour later, walking by the same spot, the same feeling assailed him. This time he stopped and watched carefully for a few minutes. This time he got it.

The lenses had been taken out of the goggles!

On questioning, the man explained he'd taken out the lenses. Why? "They're always getting smudgy," he explained.

"But why wear goggles at all?" "Rules," the workman explained innocently. "Rules say I've got to wear 'em."

Another time a shop supervisor heard a machine operator grumbling about the scratches on the lenses of his safety goggles.

"Come back to the office with me," the supervisor said, "and I'll issue you a new pair."

The workman shook his head. "No good." He tapped his scratched, nicked lenses "These are ground to prescription. Gotta have 'em that way."

"Ground to prescription? Using shatterproof glass, I hope."

"Shatter which?" the workman asked, puzzled. He'd never heard of such lenses. And, never having heard of them, he was wearing

ordinary lenses which were potentially as dangerous as no safety goggles at all.

Well, this can't happen now—for reasons which will become apparent. But these incidents illustrate a point which influences all our safety thinking here at the New York City Transit Authority.

That is, we know that the most brilliantly conceived safety program is utterly worthless unless it reaches, in full, the man who drives a bus, or operates a surface grinder, or performs the most unimportant job in the system. He's the fellow who's going to have accidents, or not have accidents—not the mastermind who dreams up safety programs in an office far removed from the wheel of the bus, the motorman's cab, or the overhauling equipment.

It is our conviction that too often good programs, even wonderful programs, fail because they don't get through, in full, to the lowest echelons. Personally I think that a poor program, relentlessly pursued to the uttermost, will yield far better results than the most brilliant scheme which is imperfectly executed.

Here is a classic example of the imperfectly executed program: Some years ago the officers of a large trucking firm discovered that Wednesdays were black days, indeed, for accidents. Week in, week out, the accident score on these particular days ranged far higher than any other day.

But why? Surely the men were no more tired on Wednesdays than on Thursdays or Fridays. Their routes—they were assigned to individual runs—were the same. Traffic was no thicker on Wednesdays than Tuesdays, or Thursdays. Why?

Searching for the difference, the officers discovered that, on Wednesdays, the men were subjected to a half-hour pep talk before starting on their runs. Further searching disclosed that these Black Wednesdays began with the pep talks. No provision had been made to allow the men some compensation, or overtime; they were still expected to complete their runs on schedule.

The result was that, after fidgeting for a half hour—during what was probably a fine pep talk—the drivers went away lickety-split, sparing the brake and bearing down on

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What's Wrong With This Picture?

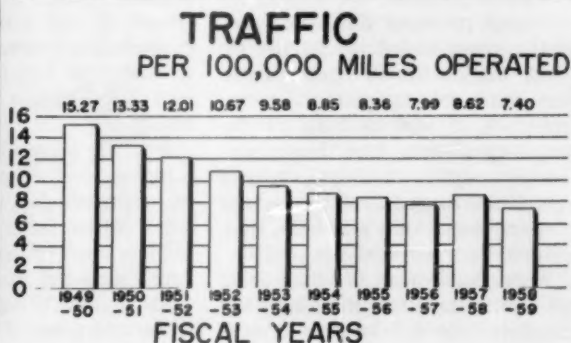


Lenses are missing from goggles. Yet, NYCTA supervisor discovered workers pulling this same trick. Why? "They're smudgy." Other workers wore scratched lenses, prescription-ground but nonshatterproof. These are examples of unrealistic safety practices where realism is needed—on the job.

EXHIBIT "A" FOR EYE PROTECTION



NEW YORK CITY TRANSIT AUTHORITY SURFACE SYSTEM ACCIDENT RATES





1960's Biggest Safety Mart

THE YEAR'S largest most comprehensive display of accident prevention equipment and related products was on exhibit for those who attended the 1960 Safety Exposition in Chicago. Throughout the week of the National Safety Congress thousands took advantage of the opportunity to visit colorful displays and inspect the products.

There were 195 displays in all, including six noncommercial exhibits. These filled the Exhibit Hall and Annex on the lower level of the Conrad Hilton Hotel, with additional exhibits on the mezzanine and third floors.

A useful addition to the Exhibit Guide this year was a classified directory of exhibitors by type of product displayed.

Among products displayed, personal protection led the parade by a wide margin. At 80 exhibits there were items of equipment for the protection of various parts of the body—eyes, ears, face, head, respiratory organs, hands, feet, and legs. Items ranged from finger cots to space suits. Auto seat belts were featured by three exhibitors.

Widespread use of toxic and radioactive materials in industry has stimulated the development of spe-

cialized types of personal protection as well as improved measures for ventilation and industrial sanitation.

Cleanliness in the modern plant has been made easier by improved equipment and supplies. Among the products on display were floor machines, vacuum cleaners, detergents, germicides, and other items which aid in maintaining clean and healthful working conditions.

Facilities for personal cleanliness were also featured. Included in this group were washroom equipment, skin cleansers, protective creams, and industrial laundry service.

Prevention of falls, a perennial and universal problem, was the purpose of many products. Slip-resistant flooring materials, coatings, and finishes of many types were shown. Attacking the problem from the personal angle were shoes with soles and heels of anti-slip materials, as well as protection for the toes and instep.

For the prevention of falls from a higher level—a prominent hazard in maintenance and construction work—there were several types of ladders conforming to strict standards, sectional and portable scaffolds, and safety belts and harnesses.

Several types of machine guards,

principally for power presses and circular saws, were demonstrated.

Materials-handling equipment, of interest to safety and operating men, was represented in the displays of wire rope, chain, slings, and accessories. Also shown was a crane boom guard to prevent contact with power lines.

First aid and medical supplies for industrial groups of all sizes and types of operation were on display.

Within the past few years there have been important developments in resuscitation methods. One has been the introduction of mouth-to-mouth resuscitation and several companies showed airways which overcome many of the objections to this method. Several types of mechanical resuscitation and breathing apparatus were demonstrated.

Protection of life and property against fire was the theme of several exhibits. In addition to portable extinguishers and fixed systems, there were safety containers for flammable liquids, detection and alarm devices, and watchmen's clocks.

Safety promotion and training materials, essential in securing effective use of equipment, provided some eye-catching displays in commercial and noncommercial exhibits. Warning and instructional signs, audio-visual training aids, literature, awards, and incentives were among items shown.

Noncommercial exhibits were staged by the following organizations: Inter-American Safety Council, National Safe Boating Association, National Society for the Prevention of Blindness, President's Committee on Employment of the Physically Handicapped, U.S. Forest Service, and U.S. Department of Health, Education, and Welfare.

Following is a list of exhibitors and their products:

EXHIBITORS AND PRODUCTS

Acme Protection Equipment Co.—Respiratory protection.

Advance Glove Manufacturing Co.—Work gloves, aluminized clothing, emergency eyewash bottles.

Aetna Casualty and Surety Co.—Driver education materials.

Air-Shields, Inc.—Rescue breathing apparatus.

Akron Brass Manufacturing Co.—Fire-fighting equipment.

Alan Wood Steel Co.—Abrasive steel floor plates.

Alim Corp.—Fire extinguishers and fire-retardant paints.

American Allsafe Co.—Industrial safety equipment.

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CONGRESS QUOTES

From the 1960 National Safety Congress

Twenty-four Hours a Day

Safety can't be put on like a glove when a man reports for work and taken off at the end of his tour of duty. When we talk about the safety of a person, we are talking about the whole man, not about a person divided between on the job and off the job.

Safety is all-inclusive. We must treat the whole man if we are to succeed in our safety educational work. We want people to be safe wherever they are or whatever they may be doing. When we treat the whole man, we serve the cause of accident prevention throughout the nation.

Those who have the responsibility for leading others to a safer life have a great trust placed in them—one that requires a depth of thought and understanding that will help combat the natural tendency of human beings to forget their safety and welfare.

Safety is more than a way of life. Without safety there may be no life at all.—*E.L. Duggan, superintendent of safety, Santa Fe (Railroad)*

A Safe Worker's Background

What makes a safe worker in industry?

Usually, safety-conscious parents, from homes where the parents have had the benefit of safety training—on the job, at PTA's, in first-aid classes, or as members of organized safety groups.

Happily, parents are becoming more and more safety conscious. But safety education in the home, even under the best conditions, is likely to be haphazard and punctuated with unintentionally poor examples by the parents. Therefore,

the real burden of safety education rests with the schools—from the first grade through college.

A student may be a valedictorian, but if he fails to receive proper safety training, the odds are against his being able to utilize his school accomplishments, to fulfill his ambitions, to justify the expense of his training.—*J. O. Musick, general manager, Texas Safety Association (School and College)*

On Waterways, Too

Courtesy and common sense are the keys to safety on the nation's waterways.

Recreational boating is big business; there are about 8 million pleasure craft afloat today. And boating safety is everybody's business.

Some of the many persons responsible for boating safety are:

1. Boat manufacturers and dealers. They have serious responsibilities for safe boating. This responsibility is mainly a moral one, but it is very strong.

2. Boat liverys. Renting boats

obviously too small for the load, or with too low transoms for the size motors being used, is common. But the major violation of both law and common sense is renting boats without life preservers or other lifesaving equipment.

3. The boat owner himself. He should learn the rules of the road—the traffic rules for driving on the water. He should learn how to use and take care of his safety equipment, and should recognize the need for laws and cooperate in their enforcement.

Main cause of unsafe boating? "Lack of knowledge of elementary safe boating procedures." *Capt. C. H. Broach, chief, Merchant Vessel Inspection, U. S. Coast Guard (Public Safety)*

No Radical Car Changes

There will be changes, and many of them, during the 60's. But I do not foresee such radical developments in the next years as atomic powered cars or the disappearance of the conventional-sized passenger car.

The foolproof, crashproof car is not imminent, and the hope for such will continue to be wishful thinking that only diverts attention from the urgent primary need for better trained and better controlled drivers.

Advances in automatic controls for use on automatic highways are possible. Automatic highways offer the potential benefits of greater safety, driver convenience, and highway efficiency. They can double present highway capacity.

Completely automatic control of vehicles for highway operation may well be an accepted fact by 1980.—*G. V. Kieffer, General Motors Corp. (Motor Transport)*



"He's trained them to report promptly."



Mr. Smith Goes to Congress

IF SOMEONE had paged a "Mr. Smith" at the 1960 National Safety Congress, it is possible that any one of more than 60 safety men named Smith might have come running. Attending safety's big show in Chicago, Oct. 17-21, were Smiths from 23 states, from Quebec, Canada, from Maracaibo, Venezuela, and the Canal Zone.

The Smith story gives just a hint of the magnitude of the annual gathering of accident prevention experts in Chicago. It was literally "SAFETY EVERYWHERE . . . all the time!" in nine Windy City hotels as every available meeting space swarmed with safety men discussing the problems of today and plans for tomorrow.

A highpoint of the convention was the annual banquet (see facing page) where an overflow throng of almost 2,000 listened closely to Red Cross President Alfred M. Gruenther, as he challenged them to do their part in helping America achieve its rightful image in a world of missiles and misunderstandings.

More than ever, the Congress was a hard-working convention with thousands of safety men hurrying from one hotel to another to catch a session on solid propellant safety at the Hilton or on motivation at the Pick-Congress.

If anyone had any doubts as to the purposefulness of the thousands of safety men in attendance, he had

only to station himself in the lobby of the Hilton hotel at a before-breakfast 8 a.m. There he would have seen a torrent of delegates pour into the hotel's grand ballroom to hear G. Herbert True's informative lectures on productive creativity. True's showmanship and imaginative use of visual aids provided many ideas that will find their way back to plants throughout the nation to add sparkle to company safety programs.



Roy Benson, manager of NSC's Industrial Department, presents annual report to Industrial Conference.



Gen. Alfred M. Gruenther receives congratulations following banquet address. William H. Lowe, chairman of the Council's board, smiles in background.



There were many demonstrations at the safety equipment exhibition. One of the popular ones was this drop test, which showed that some belts don't hold.

Foreign visitors hear Council's Koch at Annual Meeting



Guests of the U. S. Department of Labor, these delegates came from Japan, Burma, Pakistan, Brazil and Chile. Here they attend the Annual Council Meeting and are introduced to the American safety they explored more fully during the week-long congress.



Walter K. Koch, retiring VP for State and Local Safety Organizations: "The front-line fighter for safety is at the local level."



◀ Governors

At left, NSC President Howard Pyle (former governor of Arizona) presents Trustees Award to New Jersey's Governor Robert Meyner: "Safety does not happen, it is earned. NSC salutes New Jersey for making safety a way of life."

At right, U. S. Senator Robert S. Kerr, (Okla.) addresses Petroleum Section delegates: "There is no greater job to be done in America. Each American has his place."

Senator ▶



Ladies



National recognition in the form of Carol Lane Awards for promoting traffic safety are presented to representatives of women's organizations by Shell Oil's Carol Lane (right).

Labor



Appreciation for his service is presented to P. L. Siemiller, outgoing Council Vice-President for Labor (right). Making the presentation is NSC Executive Vice-President, G. C. Stewart.

Industrial Conference principals meet



A post-session discussion groups Ivan LeGore, Portland Cement; NSC's Roy Benson; Walter Montgomery, Quebec Asbestos Mining Assn., and Council VP for Industry; J. S. Queener of DuPont; and Roy P. Hamilton, St. Louis-San Francisco Railway Co.

Safety men tour Congress exhibitors' booths.



Product samples lure delegate interest.



Men of an interest talk together.



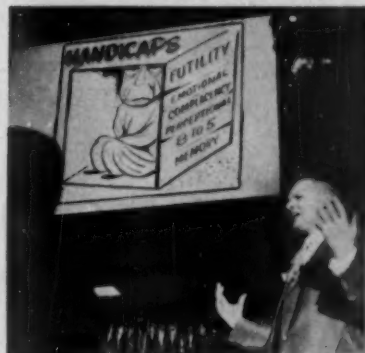
Youth has safety say

▲ Two Future Homemakers of America demonstrate basics of home safety, here concentrating on dangers prevalent in household bathrooms.

◀ 4-H miss from Chicago cautions against pitfalls of baby-sitting: have phone and emergency numbers handy; use only safe toys.

"True" showmanship

G. Herbert True, vice president, Visual Research, Inc., drew large and larger before-breakfast audiences. Subjects: Daring, Ideas, Trifles, and Decisions.



Visual aids galore . . .



. . . "egg" head approach . . .



. . . distinctive gestures . . .



. . . add up to enrapt listeners.

IDEAS THAT WORKED

Devices and Ideas to Help Your Safety Program

By ARTHUR S. KELLY, Industrial Department, NSC

GreenJadePins SpurSafetyTalk

Lapel pins made of this stone served Allen & Garcia Company, Chicago, as a triple reminder during one of the firm's safety dinners.

Green means GO. . . Go for safety!

Hundreds of years ago Chinese legend attributed good luck, health, and fortune to the possessors of green jade.

And, more important, this small lapel pin became a permanent conversation item, reminding the wearer of his safety obligations and of the organization's accident prevention activities.

The idea was introduced by C. H. Patterson, safety engineer for the firm. This jade is available commercially and is not expensive. Mr. Patterson will provide information on obtaining it for ties or lapel pins. The company is located at 332 S. Michigan Blvd., Chicago.

The safety dinner menu at right also got in another plug for safety, quoting a Chinese philosopher: "Safety is like a donkey. You take it for granted—sooner or later, you get kicked in the pants."

Winner

November prizewinner was "Skirts Too High?" Once the saw protected by this skirt guard rips into wood, none of the blade is exposed. Submitted by R. A. Koy, personnel superintendent, U. S. Gypsum Co.



Magnetic Flag Means Hazard

► A yellow warning flag featured in the safety film, "Knowing's Not Enough," inspired safety men at the South Gate, Calif., plant of U. S. Gypsum Company to use a similar gimmick with safety efforts.

As new hazards are found during inspections, they are tagged with a magnetic-based flag. The unsafe condition written on the tag warns workers until the danger is eliminated.

Workers see visual results here of their reporting of unsafe conditions. Submitted by D. G. Collins, employment supervisor of the firm.



Bond Bonus Sign Cuts Absenteeism, Accidents

▼ This sign cuts accidents, discourages absenteeism, and boosts thrift. On Monday each week a one-digit number is drawn and posted in one of the spaces on the right of the sign. When four numbers have been drawn, the worker with this badge number wins. If the number is vacant or inactive, redrawings are made daily until an active badge number appears.

Winners get a U. S. Savings Bond.

Size is determined by these requirements: \$100—employee and his group must have injury-free record for current month and worker must have perfect attendance for the same period; \$50—same as above, but the worker is permitted one day's absence; \$25—if the employee's group has one or more work injuries, he qualifies provided he has not had a work injury or been absent more than one day

during the current month's work.

Rules disqualify certain exempt workers from participating. Absenteeism due to scheduled vacation, jury duty, official travel, or military leave not exceeding two weeks doesn't count as disqualifying.

This award receives top publicity in the firm's safety program. Submitted by C. Donald Attaway, chief safety engineer. Thiokol Chemical Corp., Marshall, Tex.



PERSONALS

Paul Jones Retires



John H. Naisbitt



Paul Jones

Paul Jones, director of public information for the National Safety Council and internationally known safety speaker, retired November 1. Jones, who reached the Council's compulsory retirement age, will be retained as director of special projects and will handle special speaking and writing assignments.

Before coming to the Council, Jones was city editor, managing editor, and promotion editor of metropolitan newspapers in Kansas City, Toledo, and Cleveland.

During his 23 years as NSC director of public information, Jones emphasized that safety need not be dreary and pontifical, but could be presented in a manner that would appeal to the average man and still get across the seriousness of the problem.

Under Jones, the Council began many award programs that succeeded in stimulating the interest of media in accident prevention.

One of his last major assignments for the Council was an around-the-world trip to Saudi Arabia, the Middle East, Australia, and Honolulu during which he made 28 talks and numerous radio and television appearances.

John H. Naisbitt, formerly news service manager of Montgomery Ward & Co., has been named to the public information director post. Naisbitt also has served in various public relations capacities with Eastman Kodak Co., the Great Books Foundation, and the Unitarian Service Committee.

Paul Jones, who has always been much in demand for his lively safety talks, will continue to be available as a speaker both as a National Safety Council representative and on a personal basis. His schedule permitting, the Council can make arrangements for Paul to address major affairs of the type where the Council would normally provide a speaker. Address requests to Gen. G. C. Stewart, Council executive vice president. For other occasions, arrangements may be made directly with Paul Jones at Council headquarters, 425 No. Michigan Ave., Chicago 11, Ill.

James D. Saul Succeeds Carman Fish as NSNews Editor

After 36 years as editor of NATIONAL SAFETY NEWS, Carman Fish retired November 1, handing over the editorship to James D. Saul, associate editor of the magazine for the past three years.

Fish will serve the Council as a consultant and will continue to write "The Safety Valve" feature in this publication, in addition to editing his well-known monthly *Employee Publications News Letter*.

Saul joined the Council staff in 1953. Former director of the Council's Operation Safety program, he is author of "Maintaining Interest in Safety," a chapter in the NSC *Accident Prevention Manual*; and a book, *Showmanship in Safety*. He also originated the "News Briefs" page in NSNews.

He is a 1949 graduate of the University of Illinois at Urbana, and studied public relations and journalism at Northwestern University and the University of Chicago.

Fish joined the Council in January 1923, becoming editor-in-chief of NSNews two years later. Previously, he had come to the United States from his home in Otterville, Canada, after having served with the Royal Canadian Field Artillery in World War I and working in his father's print shop.

He attended the University of Chicago and was associate editor of the *Inland Printer* before joining the Council staff.



Carman Fish, recently retired editor-in-chief of NSNews, finishes his span of 37-plus years with the magazine by planning page layouts with the new editor, James D. Saul, NSNews associate editor for the past three years.

LIVE LINE TOOLS

*Copies of this data sheet will be
available for order within 30 days.*

Introduction

1. Live line tools are designed to provide temporary but secure support for energized electrical conductors so that these conductors can be kept well away from linemen who are doing repair work on insulators, arms, or other permanent support equipment. In the hands of workmen who have been thoroughly trained in their use, live line tools can be employed to perform a great variety of jobs on overhead power lines. They facilitate accomplishment of the work with safety and with no interruption of power—a service feature that every utility desires for good consumer relations.

2. The purpose of this data sheet is to summarize safe procedures to be followed in the use of live line tools. The safety measures recommended pertain only to the use of these tools and do not cover other safe practices required in power line work. Furthermore, these recommendations are intended to supplement, but not supplant, company rules.

3. Many electric utilities now use distribution voltages above 5 kilovolts (kv). Since many consumers, such as industrial companies operating around the clock, require uninterrupted service, much of the repair and maintenance work on transmission and distribution power lines must be done while the conductors are energized. A few com-

This data sheet is one of a series published by the National Safety Council, reflecting experience from many sources. Not every acceptable safety procedure in the field is necessarily included. This data sheet should not be confused with American Standard Safety codes, federal laws, insurance requirements, state laws, rules and regulations, or municipal ordinances.

panies work on higher voltages with rubber protective equipment alone, but the general consensus of opinion is that use of live line tools (Figure 1) is a much safer method.

Selection and Purchase

4. Live line tools should be carefully selected, and purchased from reputable manufacturers or dealers. To assure selection of the proper tools for the type of live line work



Figure 1. An assortment of live line tools and accessories laid out at job site preliminary to start of work on energized conductors. Use of the canvas tarpaulin protects tools from ground moisture, abrasions. (Courtesy Southern California Edison Co.)

the specific system requires, the manufacturer's advice should be obtained.

5. The buyer should make certain that all tools purchased have been subjected to prescribed tests by the manufacturer. The standard electrical test for live line tools is 75,000 volts per foot for five minutes. Live line tools made of fiber glass are tested at 100,000 volts per foot for five minutes. Fittings, clamps, and other accessories should be given tensile, torsion, and such other tests as may be indicated by the type of service for which they are designed.

6. Live line tools should be thoroughly inspected upon receipt. The purchaser should make certain that they have not been scratched or otherwise damaged during shipment. A check should also be made for cracked parts, bent rivets, defective bolts, and loose ferrules. If any doubt exists as to the condition of the tool or part, it should not be placed in service.

Storage

7. It is extremely important that live line tools be stored in a place free of moisture and that they be protected from scratches and abrasions. Climatic conditions in the storage area will determine the precautions that must be taken. In some cases, special drying facilities with thermostatically controlled

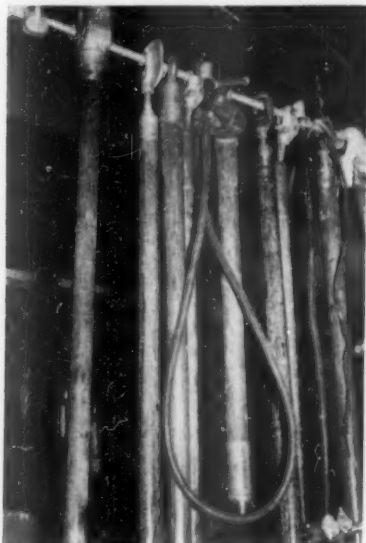


Figure 2. Vertical storage of live line tools. (Courtesy Illinois Power Co.)



Figure 3. Special compartment installed on truck for transporting live line tools. Padded edges of individual tool containers afford protection against damage. (Courtesy Southern California Edison Co.)

temperature may be necessary. This temperature should not exceed 100 F.

8. When line tools are stored suspended in a vertical position (Figure 2), all parts should be well above floor level to reduce their exposure to moisture. If there is not enough room for vertical storage, tools may be stored horizontally if they are supported to maintain proper alignment. In either case, they should not be stored in canvas containers for extended periods, but should have air circulating about them.

9. Since live line tools made of fiber glass are so designed that they do not absorb an appreciable amount of moisture, they require no special drying cabinets, heaters, or storage facilities. In other respects, however, they should be maintained and cared for in the same manner as other live line tools.

Transporting Tools

10. When live line tools are transported, they must be handled with care and in a manner conducive to preserving their dielectric qualities. One of several methods may be used to transport tools to and from the job.

- a. Tools may be rolled in a canvas tarpaulin with each tool separated from the next by a layer of canvas.
- b. Tools may be placed in padded racks in trucks.
- c. Specially constructed live line tool compartments may be installed on line trucks (Figure 3).
- d. Live line tools trailers especially designed to carry a complete set of tools may be used.

11. Live line tools which are constantly transported on trucks should be regularly checked and repaired or replaced as often as necessary to maintain a full set of them that are in first-class condition.

Training of Linemen

12. To use live line tools properly, linemen must be able to solve problems in rigging, must understand loads and strains, and must know how to use attachments, clamps, levers, and blocks. Linemen who are to do live line tool work must therefore be selected to meet exacting requirements and must be given training that is in part more specialized than that provided for men who are to be assigned to other kinds of line work.

13. Training of linemen who are to work with live line tools should if possible, include all the following:

- a. Classroom training, including movies and discussions.
- b. Demonstrations by well-trained live line tool linemen.
- c. Practice on de-energized lines or on poles below transmission lines (Figure 4).
- d. Practice on energized lines under close supervision.

14. The following points should be thoroughly covered in the training course:

- a. Selection of the proper tools for each job, as determined by mechanical strains and electrical loads to be expected on lines and equipment.

- b. Proper installation and safe use of tools.
- c. Correct working positions for linemen to take on poles, towers, and structures when using the tools.
- d. Rigging required in conjunction with live line tools.
- e. Inspection of live line tools.
- f. Safe methods for raising and lowering tools.
- g. Care and handling of tools on the ground and during transportation.

15. It is recommended that all men in live line tool work be required to take a refresher course at regular intervals so that they can keep abreast of up-to-date information on new tools and new ideas regarding their use.

Use of Tools

16. The increased use of ACSR (aluminum conductor steel reinforced) and aluminum conductors has necessitated the development of new tools and techniques for handling them. With these tools, it is now possible to install armor rods, dead-ends, and splices on these conductors.

17. Live line tools should be thoroughly inspected before each use. They should not be used in rain or heavy fog, except in emer-

gency work. In case of emergency, rubber protective equipment should be employed.

18. Many companies and manufacturers recommend that linemen use live line tools without wearing rubber gloves, while others insist that rubber gloves be worn. In all cases, company rules, designed to afford maximum protection to employees, should be followed.

19. The workman should choose a safe working position on the structure and should check carefully before changing position. It is good practice to work as far below the conductors as practical. If possible, the workman should avoid positioning himself directly below the conductors. Workmen on the ground should not come in contact with structure guys or metallic fences in an area where work is being done on live lines.

20. On wood poles, all metallic paths to ground within reaching distance should be removed, set out, or covered. Induced voltage or static in metallic hardware can cause severe shock on some wood poles. Such hardware should be covered or avoided. Men using live line tools on steel towers are considered grounded at all times; on extremely high-voltage lines, conductive devices can be used to improve this ground contact.

21. The employee should place his hands no closer than absolutely necessary to the energized line or the metal parts of the live line tool he is using. Many companies employ markers, such as rubber hand guards or strips of red reflective tape, to indicate safe working distances.

22. Recommendations vary regarding safe working clearances. One formula specifies that the safe working distance in feet is 1 per cent of the kv (phase to phase) plus 2. As an example, for a 69 kv line, the distance would be 1 per cent of 69 or 0.69 feet, plus 2 feet, or, a total of 2.69 feet or 2 feet 9 inches in round numbers. Another recommendation specifies pre-set distances, such as: 3 feet with respect to a 34.5 kv line, 4 feet for a

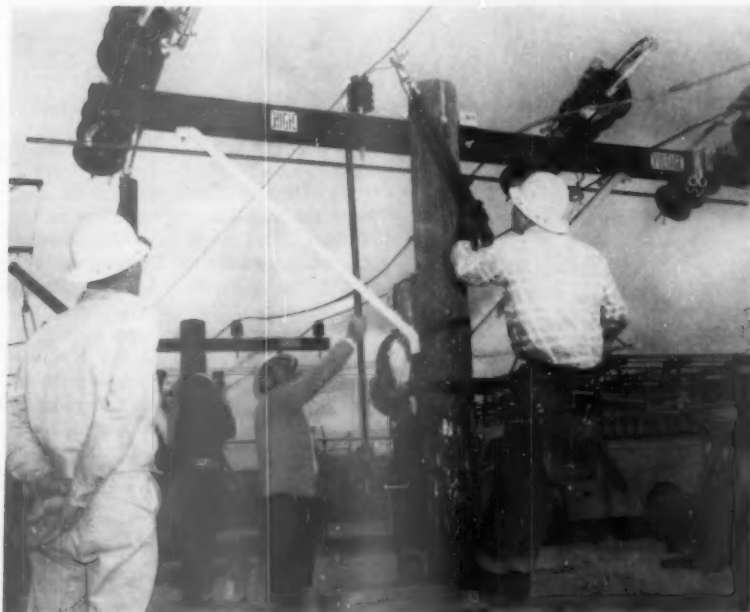


Figure 4. Training area for live line tool linemen. Practice by trainees on stub poles and mock line setups is conducted under close supervision of instructor. (Courtesy Southern California Edison Co.)

69 kv line, 5 feet for a 138 kv line, and 8 feet for 230 to 345 kv lines.

23. Employees should use extreme caution when working with live line tools. All movement of tools and conductors should be smoothly and evenly executed. Use of blocks and tackle will help attain smooth movement.

24. Particular attention must be given to positioning of tools when sharp angles and large conductors are to be worked. Additional equipment may be needed to minimize stress on individual tools.

25. Tools showing a static discharge should be removed from service.

26. Hold-out ropes or live line tools being used to spread or raise conductors should be securely fastened. Workmen should not touch these ropes or tools except to secure or release them. Rope should not be used on conductors carrying high voltage unless the rope is insulated with a tested link stick.

27. Temporary bypass jumpers, although insulated, should be treated as hot at all times, and should be kept clear of the structure, the pole hardware, and the workman's body.

28. Only one wire should be worked at a time on the same structure, except in the case of a cross-arm operation when several conductors are moved as a unit.

29. Tools to be raised or lowered should be tied securely to the hand line or placed in an appropriate bag.

30. Live line tools should not be laid on the ground. They should always be placed on a canvas tarpaulin or specially constructed rack.

31. Blocks, ropes, and slings used for live line work should be reserved for that purpose only. Ropes should be kept free of dust, moisture, oils, and acids, and should be stored in the same manner as live line tools.

Maintenance

32. Tools should be inspected regularly for excessive wear and for indications of having been overstressed. Defective tools should be taken out of service and replaced

or returned to the manufacturer for repair.

33. Wood poles of live line tools are treated with either a tough pole preservative or a protective plastic coating, both of which have insulating qualities equal to that of the wood. The protective coating must be applied as directed by the supplier and must be maintained carefully to prevent the poles from absorbing moisture.

34. Wood tools to be refinished should first be thoroughly cleaned and sanded (only sandpaper should be used). They should then be placed in a warm, ventilated room and left there for at least 24 hours. When the tools are dry, they should be treated with a proper preservative finish. They should then be allowed to dry for at least 12 hours in the drying room.

35. Tests have shown that fiber glass live line tools require little maintenance. However, it is recommended that the tools be kept cleaned by applications of hot stick wax. Occasionally, if surfaces are heavily soiled, use of a safe cleaning fluid may also be required.



Figure 5. Portable device for testing dielectric properties of live line tools. Such a tester is especially useful for making field checks of tools. (Courtesy A. B. Chance Co.)

36. Periodic retesting of live line tools is recommended (Figure 5). However, it is difficult to set a firm time interval as there are a number of factors that would dictate how

often they should be retested. Weather conditions, number of times used, truck storage facilities, and similar factors should be considered. Every six months seems to be the most popularly accepted interval.

Supervision

37. It is the foreman's responsibility to plan each live line tool job thoroughly. He should make certain that there is an adequate supply of the proper tools and equipment to do the job safely.

38. Before starting the job, the foreman should hold a "tailboard conference" with all members of the crew present. All aspects of the job procedure should be discussed. The foreman should make sure that each man clearly understands the procedure to be followed and knows what he is to do and how to do it. Particular attention should be given to all possible hazards that may be encountered during the course of the job.

39. While the job is in progress, the foreman should closely supervise the men doing the work, checking them constantly to make certain that they are in safe working positions and are handling the tools in a safe and competent manner.

ACKNOWLEDGMENT

The original draft of this industrial data sheet was prepared by W. F. Bachman, Omaha Public Power District, with the assistance of members of the Public Utilities Section Engineering Committee under the Chairmanship of R. Beith, Electrical Utilities Safety Association of Ontario, Toronto, Canada. Content has been extensively reviewed by members of the National Safety Council and by representatives of chapters of the American Society of Safety Engineers. The data sheet has been approved for publication by the Publications Committee of the Industrial Conference of the National Safety Council.



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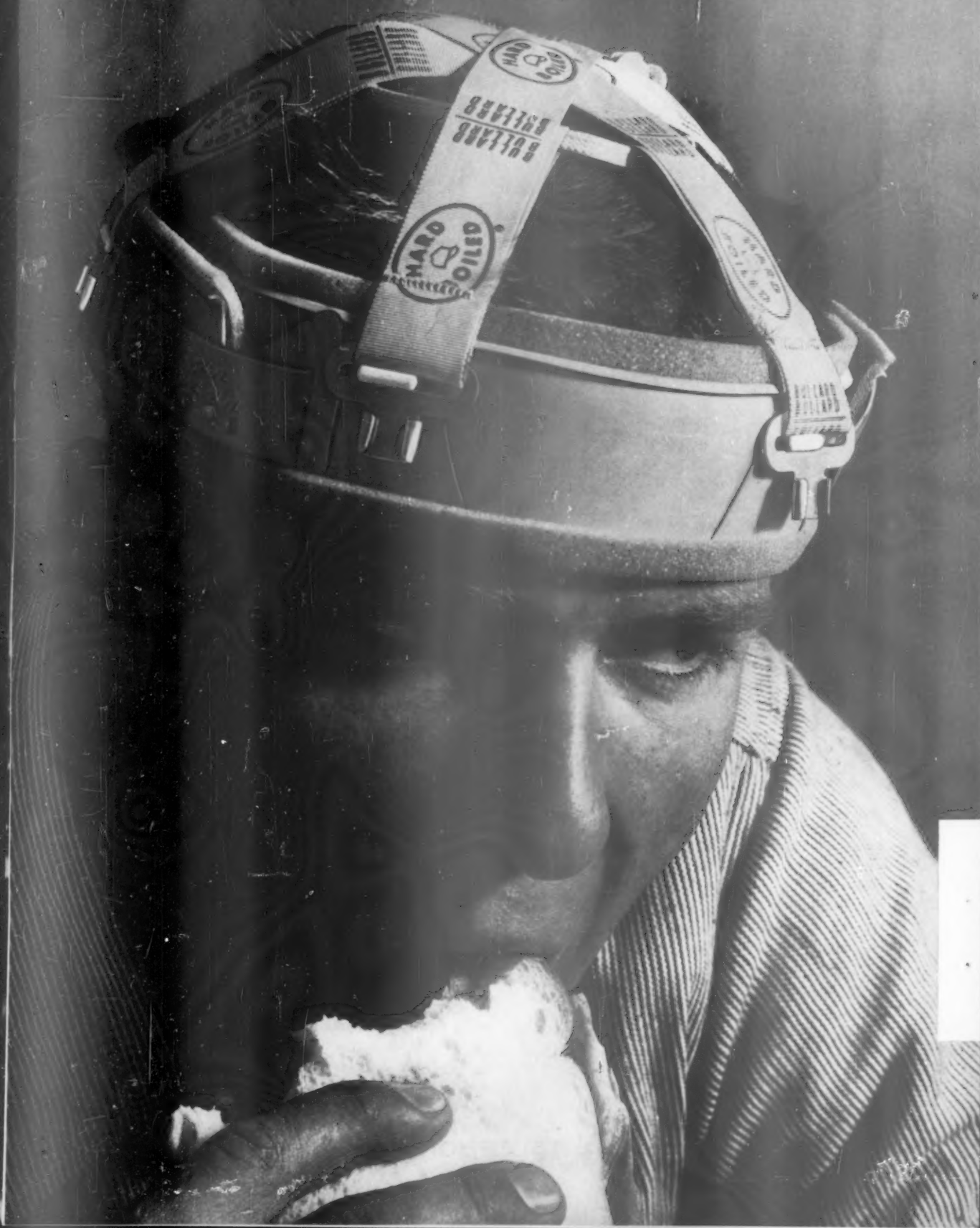
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Made-to-Measure Safety

—From page 27

the accelerator to avoid a caution for lateness.

The subject of the pep talks? You've probably guessed it—safety.

So it is not enough simply to set up an excellent set of rules; neither is it enough simply to talk, talk, talk safety. The workman should not only know the rules; he should know precisely the *why* of the rules. It is not enough to bombard him with safety slogans; he must be given an *awareness* of danger.

This *awareness* is, to our thinking, the most important step of all in achieving a high safety record. This isn't just theory. It can be established in hard, stubborn figures.

In addition to operating the largest bus fleet in the country, the New York City Transit Authority operates the most extensive rapid transit system. Ask which of the thirty-odd thousand employees have the most dangerous job, and you will find little dispute. This doubtful honor goes to the power distribution men.

In a transit system where a five-minute delay is serious indeed, where a ten-minute power turnoff can foul up a rush hour, it is impractical to turn off the power while repairing a third rail, as a standard railroad might do.

Thus these power distribution men must drill and weld third rails while they are still live with 600 deadly volts. Under many of these circumstances, the men working on these third rails are "live" themselves, protected by a rubber mat upon which they stand or kneel while in the performance of their duties. The mat prevents them from being "grounded."

Now, unfortunately, accidental electrocution happens occasionally. A trackman may fall, touching the third rail. A signal maintainer may absently step on the live rail; indeed, virtually every class of employee—with a single exception—has contributed at least one victim to this type of accident over the fifty-six years of subway operation.

The exception, of course, is the power distribution men, the very men who work constantly on the

third rail itself. The reason is obvious. The PD man is constantly aware that he is working with a lethal electric current. The trackman or the signal maintainer is apt to forget it.

We have had numerous instances of this. One of our plants, for example, had a bad safety record some years ago. Our safety experts moved in. One of their first actions was an ironclad rule that each employee had to wear a steel safety hat, colored to indicate his job. Even visitors were forced to don a safety hat, colored white, to make them stand out. Immediately accidents fell off. Not just head injuries, which were not a serious problem in the first place. It was simply that the sight of these bright steel safety hats made all employees conscious of danger.

Our Surface Division, which recently took top honors in safety for cities over a million population, the American Transit Association's "Silver Shield," has long pursued this policy of reaching the man in the driver's seat and the man at the machine. This has paid dividends. In ten years, the accident rate has been cut 43 per cent.

In this division no accident is "wasted." That is, the accident prevention committee, consisting of two bus drivers and a dispatcher, spends a day every two weeks at each of the bus depots, dissecting and analyzing each accident. The driver involved in each accident is present, but this is in no sense a trial. As far as management goes, the accident has already been investigated. The purpose of this analysis is simply to find methods of preventing such an accident from repeating itself in the future.

The atmosphere in which these APC hearings are held are remarkable for their free and easy informality. The driver involved usually levels with the APC members. They are his equals, not his superiors. The involved driver gets the benefit of their experience; most important, he goes away from the hearing unruffled.

But the greatest value is to the APC members themselves. These are not necessarily the oldest, most experienced drivers, or men with records free of accidents, or nearly free. Far from it. They are simply

ordinary bus drivers, who serve for four days—or one day every two weeks, over a period of two months. Thousands of our bus drivers have served on this committee. The aim is to have every one of them serve.

During even a single term on this committee, it should be noted, each member studies—perhaps unconsciously—the anatomy of every accident that has happened to any of our buses in two months. Since we

run 2,000 buses on 120 routes, this is cramming the accident experience of many lifetimes into four days. If there is any truth to the saying that we learn by our mistakes—and I certainly believe it—they learn a great deal indeed.

Of great value is the attitude of the men who have served on the APC committee. They may fancy themselves experts on safety, which, from a practical standpoint, they

are. The attitude itself is an important achievement; here you have truly reached the man behind the wheel.

The end result has been remarkable. In 1958, the Authority enrolled its surface line operators in the National Safety Council Safe Driver Award program. Of our 4,807 operators, 3,893 have received awards to date.

In our bus depots and overhaul shops, there are many points of danger. It is, however, impossible to approach any one of them without being conscious of it, because each point of hazard is painted a brilliant orange.

Every supervisor knows that a prolonged no-accident record means concrete recognition for him. He also knows that accidents to his men will reflect strongly against him. For today we hold the supervisor more than ever responsible for the injuries of his employees. Today the supervisor—not the employee—would be held responsible for the lensless goggles, the nonshatterproof lenses. A new employee, or a worker recently transferred to a new assignment, is not to blame for accidents arising from not knowing the rules; the supervisor should have made him thoroughly familiar with those rules.

So today the worker in the shop knows very well why he wears goggles with shatterproof lenses when his job calls for it. Chances are, he walks by a glass case which contains safety goggles, each with a crazed lens, the result of being struck with a flying bit of metal. Underneath is a caption telling who was wearing it when it was struck with a flying piece of metal.

Very likely the workman knows some of the very eyes that still see today because of those shatterproof lenses.

The result is that, at this writing, the Surface Division is on the last lap of getting a record of 1,000,000 man-hours without a single disabling injury.

As chairman, I feel that safety awareness is my personal responsibility, and that the most important part of my job is to bring that awareness to everyone—including the man pushing a broom in the farthest outpost of our system.

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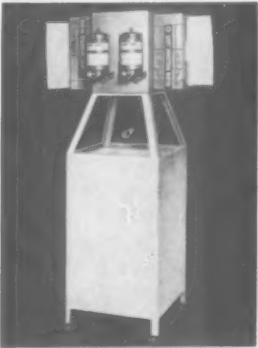
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Consultation Corner

By L. C. SMITH

Industrial Department, NSC

Fitting Protective Goggles Properly

Question: We are starting a goggle program in our plant, and the question of fitting goggles has been

discussed by our safety committee. Several members of the committee have expressed the opinion that any person can be trained quickly to fit goggles. Right or wrong?

Answer: Naturally, to give the maximum in protection and comfort, protective goggles must fit properly. To fit goggles properly requires proper measuring and an understanding of the various styles and sizes of lenses available. While this is not complicated, it is not something that can be learned on the spur of the moment.

Since the fit of the goggles is an important factor in eye protection, it is only natural that this becomes an important consideration when starting a goggle program. It would be foolish to spend money for goggles and then have an eye injury because goggles didn't fit properly.

Any reputable supplier of goggles would be in a position to train one of your men in the proper fitting of this device. Also, these men can be trained in the repair of goggles—important in a program.

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Answer: As you probably have determined, references to this alloy are comparatively scarce. Briefly, this alloy is a mixture of FeP and Fe₂P, containing about 68 to 72 per cent iron. It is a clean, gray, lustrous metallic alloy with a specific gravity of approximately 6.5. It will not rust. It is chemically inert and is insoluble in acids.

A check of our sources of information indicates there are no special precautions required regarding storage or handling of ferrophosphorus prior to its mixture in concrete. Its introduction into concrete carries with it no special safety problems.

Ferrophosphorus is used as a special aggregate in concrete because its density imparts a high density to the concrete, enhancing the radiation shielding properties of the concrete. A cubic yard of normal concrete weighs approximately 4,000 lbs; a cubic yard of concrete utilizing ferrophosphorus weighs about 7,900 lbs.

It should be pointed out that the additional weight of concrete using ferrophosphorus as an aggregate does create problems in construction of forms and scaffolding. This is, of course, a problem not involving the properties of ferrophosphorus itself.

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COMING EVENTS

*in safety and
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Dec. 13-14, New York

Meeting of the National Safety Council's Public Utilities Section Executive Committee (Statler Hilton Hotel). Frank P. Mueller, safety director, Peoples Gas, Light and Coke Co., 122 S. Michigan Ave., Chicago 30.

Feb. 2-3, Milwaukee, Wis.

Nineteenth Annual Mid-Winter Safety Conference and Exposition, Wisconsin Council of Safety, Inc. Hotel Schroeder; Plankinton House. R. W. Gillette, executive director 119 E. Washington Ave., Madison 3, Wis.

Mar. 5-7, Atlanta, Ga.

Southern Safety Conference & Exposition (Atlanta Biltmore Hotel). W. L. Groth, executive director, PO Box 8927, Richmond 25, Va.

Mar. 14-15, Fort Wayne, Ind.

1961 Northeastern Indiana Safety Conference and Exhibit. Ivan A. Martin, manager, Fort Wayne Safety Council, Chamber of Commerce Building, Fort Wayne, Ind.

Mar. 28-30, Los Angeles, Calif.

Eighth Annual Western Safety Congress and Exhibits (Ambassador Hotel). Joseph M. Kaplan, manager, Greater Los Angeles Chapter—NSC, 3388 W. Eighth St., Los Angeles 5.

April 3-4, Boston, Mass.

Fortieth Annual Massachusetts Safety Conference and Exhibit (Hotel Statler Hilton). Sponsored by Massachusetts Safety Council, Safety Council of Western Massachusetts, and Worcester County Safety Council. Bert Harmon, manager, Massachusetts Safety Council, 54 Devonshire St., Boston 2.

April 12-14, Gainesville, Fla.

Eighth Annual Conference on Accident Prevention Engineering (University of Florida). Donald B. Wilcox, conference coordinator, College of Engineering, Department of Industrial Engineering, University of Florida, Gainesville, Fla.

May 4-6, Norfolk, Va.

Twenty-seventh Annual Conference, Virginia Safety Association (Hotel Monticello). Hiram M. Smith, Jr., Virginia Safety Association, 810 Mutual Bldg., Ninth and Main Sts., Richmond 19, Va.

Aug. 13-17, Detroit, Mich.

1961 Meeting of American Trucking Associations Council of Safety Supervisors (Hotel Fort Shelby). Bernard Goodrich, A.T.A., 1424 16th St. N.W., Washington 6, D. C.

Oct. 16-20, Chicago

Forty-ninth National Safety Congress and Exposition (Conrad-Hilton Hotel). R. L. Forney, secretary, National Safety Council, 425 N. Michigan Ave., Chicago 11.

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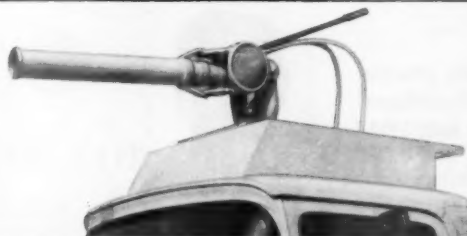
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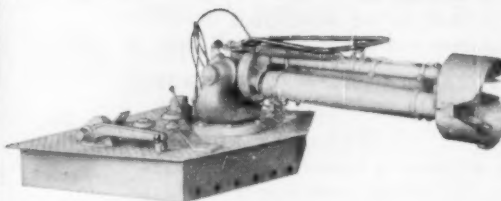
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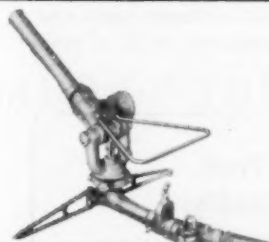
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On the truck or on the ground, fire fighters can hit fires *harder* using ROCKWOOD Turrets! At airports and refineries ... in municipalities and throughout industry ... these advanced-design fire-fighting aids are constantly proving their ability to extinguish fires faster.

ROCKWOOD Turrets provide plenty of volume and versatility.

What's more, all are easily adjustable on the fire line to meet changing fire conditions. Produced by the world's largest manufacturer of specialty Fire-Fighting Turrets, they're designed to give fire fighters an extra edge of efficiency on most types of fires. Get full details on the complete line of fire-fighting products. Write ROCKWOOD SPRINKLER

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Engineers Water

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Distributors in all principal cities.

Safety Mart

—From page 28

American Biltrite Rubber Co.—Rubber, composition, and neoprene soles.

American Chain and Cable Co.—Chain and wire rope slings and assemblies.

American Industrial Safety Equipment Co.—Face shields, goggles, gloves, and mittens.

American La France Corp.—Fire-fighting equipment.

American Optical Co.—Head, eye, and respiratory protective equipment; safety clothing; and specialty products.

American Optometric Assn.—Eye conservation programs.

Ampco Metal, Inc.—Nonsparking tools.

Ansul Chemical Co.—Fire-fighting equipment.

Antrex Corp.—Portable communication equipment, megaphones, radios, and recorders.

Auto-crat Manufacturing Co.—Safety belts and harness.

Bachrach Industrial Instrument Co.—Instruments for gas analysis and air measurement.

Bashlin, W. M., Co.—Linemen's and industrial safety equipment.

Bausch & Lomb, Inc.—Safety glasses and sight-screening equipment.

Beam's Manufacturing Co.—Auto safety belts.

Beryllium Corp.—Spark-resistant and non-magnetic tools.

Best, Alfred M., Co.—Safety publications.

Bethlehem Steel Co.—Wire rope and slings.

Boyer-Campbell Co.—Personal protective equipment, animated safety signs.

Brossard, Lester, L., Co.—Traffic mirrors and lane markers, hand creams and cleaners.

Browne, Stewart R., Manufacturing Co.—Electrical safety equipment, explosionproof inspection lights, grounding devices.

Buhrke, R. H., Co.—Safety equipment for construction and maintenance.

Bullard, E. D., Co.—Safety hats, first aid supplies, materials-handling equipment, vehicle alarms, portable rubber glove testers.

Campbell Chain Co.—Welded and weld-less chain.

Chance, A. B., Co.—Hot line tools.

Charleston Rubber Co.—Gloves and other protective garments for electrical, chemical, and radiation exposures; safety clamps; red danger flags.

Chemical Corp.—Protective creams and hand cleaners.

Chicago Eye Shield Co.—Head and eye protection.

Chrysler Corp.—Safety features in automobile construction.

Clark, David Co.—Ear protectors, environmental and special purpose clothing.

Clark, J. R., Co.—Industrial ladders.

Columbus McKinnon Chain Corp.—Alloy steel sling chains.

CTL Co. (Lummis Manufacturing Co.)—Key reels for retrieving keys.

Cunningham, M. E. Co.—Safety marking tools.

Davis Emergency Equipment Co.—Respiratory protection, combustible gas indicators, general safety and first-aid equipment.

Detex Watchclock Corp.—Watchmen's clocks.

DeWalt, Inc.—Radial arm saws with safety features.

Dietz, R. E., Co.—Automotive lighting and safety equipment.

Dockson Corp.—Welding helmets, goggles, respirators.

Dow Chemical Co.—Industrial solvents.

Dow Corning Corp.—Eye glass cleaning stations, silicone leather preservative.

Dräger Oxygen Apparatus Corp.—Breathing apparatus, gas detectors.

Eagle Manufacturing Co.—Safety cans, oilers.

Eastern Metal of Elmira, Inc.—Public utility products, traffic signs and equipment.

Edmont, Inc.—Coated fabric work gloves.

Elkhart Brass Manufacturing Co.—Fire-fighting equipment.

Elliott Service Co.—Safety and industrial relations training aids.

Emerson, J. H., Co.—Resuscitation equipment, safety matting.

Falcon Alarm Co.—Automatic fire detectors and signals.

Federal Sign and Signal Corp.—Sirens, horns, and warning lights.

Fendall Co.—Head and eye protection.

Fibre-Metal Products Co.—Head and face protection, welding accessories.

Fine Organics, Inc.—Safety solvents.

Ford Motor Corp.—Automobile safety features.

Frommelt Industries, Inc.—Portable welding shields, protective heat cloth.

Fyrepel Products, Inc.—Heat protective clothing, aluminized glass cloth.

Fyr-Fyter Co.—Portable and fired fire-fighting equipment.

General Fire Extinguisher Corp.—Fire fighting equipment.

Glendale Optical Co.—Goggles and face shields.

Globe Co.—Grating and stair treads.

Globe Industries, Inc.—Resuscitation and breathing apparatus.

Goodrich, B. F., Footwear and Flooring Co., Hood Rubber Co.—Waterproof footwear and work gloves.

Granet Corp.—Coated fabric work gloves.

Grinnell Co.—Fire-protection systems.

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says
Jay Patrick
President of Tect, Inc.

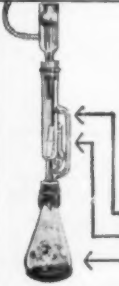
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BY RADIOACTIVE MATERIALS

JEAN SPENCER FELTON, M.D.*

AND

C. JOHN ROZAS, M.S.**
LOS ANGELES

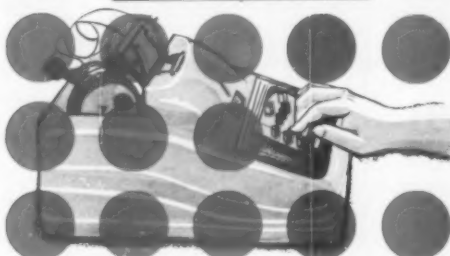
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(Dr. Felton)*

***Research Associate, Division of Occupational Health, School
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K-60

Gro-Cord Rubber Co.—Slip-resistant soles for footwear.

Halperin, A. E., Co.—First-aid kits.

Haus of Krause Safety Shoes—Safety footwear.

Haws Drinking Faucet Co.—Emergency showers and eye fountains.

Hild Floor Machine Co.—Maintenance equipment, standard and explosionproof floor machines and vacuum cleaners.

Hopfeld Industrial Manufacturing Co.—Fiberglass safety ladders and accessories.

Hygiene Research, Inc.—Protective ointments, mistproofing cloth for goggles and windshields.

Hy-Test Safety Shoes—Safety footwear for general and specialized uses.

Industrial Acoustics Co.—Audiometric

examination rooms, sound-reducing equipment, and sound-measuring instruments.

Industrial Gloves Co.—Work gloves for general specialized uses.

Institute of Industrial Launderers—Cleaning, renovating, and flame-proofing work garments.

Insto-Gas Corp.—Torches and furnaces. Interstate Rubber Products Corp.—Traffic cones.

Iron Age Safety Shoe Div., H. Childs & Co.—Leather and rubber footwear for industrial use.

Jackson Products Air Reduction Sales Co.—Safety hats, welding equipment.

Jomac, Inc.—Work gloves, protective clothing.

Jones & Co.—Full vision visor goggles.

Jones & Laughlin Steel Corp., Wire Rope Div.—Wire rope, manila and synthetic rope slings, alloy chains, hand and power hoists. Junkin Safety Equipment Co.—Power press guards, grinding wheel shields, stretchers.

Justrite Manufacturing Co.—Safety cans, oily waste cans, electric lanterns.

Karel First Aid Supply Co.—Hospital equipment and supplies.

Kelly Paint Co.—Skid-resistant coatings. Keystone View Co.—Vision testing equipment, lantern slide projectors.

Kidde, Walter, & Co.—Fire detecting and extinguishing equipment.

Kimball Safety Products Co.—Personal protective equipment.

Klein, Mathias, & Sons—Linemen's equipment.

Knapp Bros. Shoe Manufacturing Corp.—Safety shoes.

Kunz, J., Glove Co.—Linemen's bridge-men's and welders' gloves.

Lawter Chemicals, Inc.—Fluorescent paints.

Legge, Walter G., Co.—Floor maintenance materials, conductive coatings, static eliminators.

Lehigh Safety Shoe Co.—Leather and rubber footwear.

Lowery Bros., Inc.—Wire rope

McAn, Thom, Safety Shoe Div.—Safety shoes.

McDermott, Julian A., Corp.—Warning lighting for municipal, industrial, utility, and aviation use.

McKay Co.—Industrial chain, tire chains, arc welding electrodes, stainless and alloy wire.

Maico Electronics, Inc.—Auditory equipment for industrial hearing conservation program.

Marsh & McLennan, Inc.—Insurance and safety service.

Martindale Electric Co.—Dust masks, eye protectors, electric test instruments.

Medical Supply Co.—First aid kits, stretchers, blankets, snake bite kits, salt tablets, treatment for poison ivy and burns.

Metropolitan Life Insurance Co.—Materials for community safety and health programs.

Meyer Machine, Inc.—Safety clamps for high climbing.

Micro Switch, Div. Minneapolis Honeywell Regulator Co.—Interlock switches and controls.

Milburn Co.—Protective creams, skin cleaners, protective clothing.

Miller Equipment Co.—Safety belts for linemen and other industrial uses, webbing slings, canvas products.

Mine Safety Appliances Co.—Safety equipment for all industries.

Minnesota Mining and Manufacturing Co.—Aluminized fabric for heat-protective garments.

National Chemsearch Co.—Safety solvents.

National Medical Supply Co.—First-aid supplies, instruments, and pharmaceuticals.

Newco Manufacturing Co.—Wire rope fittings.

Nichols Engineering Co.—Loading and unloading platforms for tank cars and trucks.

Notifier Corp.—Automatic fire detection, sprinkler supervision, plant protection systems.

Occupational Hazards—Safety publications. Ohio Chemical and Surgical Equipment Co., Div. of Air Reduction Co.—Resuscitation equipment.

Onox, Inc.—Materials for prevention of athlete's foot.

Osborn Manufacturing Corp.—Pliers and tongs for feeding punch presses.

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Workers really go for the good looks and comfort of LITE KNIGHT Safety Shoes. This enthusiastic acceptance by your men will assure the success of your safety program. For the name of your nearest jobber, write to:

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In Canada: Greb Shoes Ltd., Kitchener, Ont.*

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Sarole, Inc.—Carriers for the injured.

U.S. Department of Health, Education,
and Welfare.

54

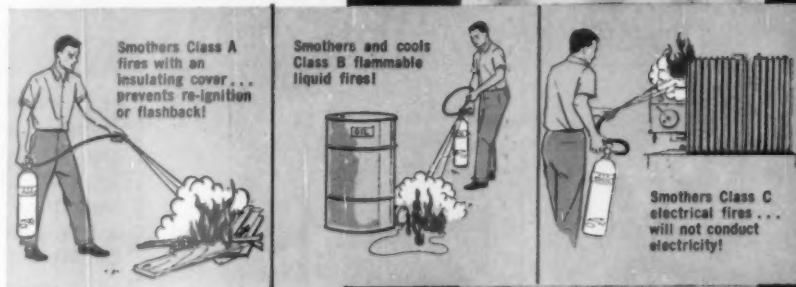
NEW ALL-PURPOSE extinguishers

*Now... U. L. and F. M. approved
for all classes of fires!*

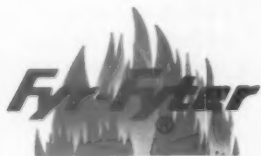
Now you can safely, effectively fight all classes of fire—A, B and C—with a single type of extinguisher! These revolutionary new ALL-PURPOSE Dry Chemical Extinguishers carry *high* Underwriters' Laboratories "ABC" ratings . . . are also approved by Factory Mutual. They provide the most powerful three-in-one fire protection ever offered in a single extinguisher! The 30 lb. model (U.L. rating 4-A, 20-B, C) packs fire-killing power equal to *two* Soda Acid extinguishers (rated 2-A) plus *one* conventional Dry Chemical extinguisher (rated 20-B, C)!

All-Purpose ABC rated extinguishers expel a new patented "Formula S" powder* which reacts chemically upon contact with all classes of fire. Powder is transformed into a strong fire-retardant coating that virtually eliminates re-flash in deep-seated wood and other Class A fires, including rubber! Free-flowing, non-toxic, non-abrasive "Formula S" is equally effective on burning liquids (Class B) and electrical fires (Class C).

Three-In-One Fire Protection



Available in 20 and 30 lb. sizes, featuring easy squeeze-grip operation . . . no annual recharge. Order today from your distributor! Look in the Yellow Pages under "Fire Protection Equipment." Or write to The Fyr-Fyter Company, Dayton 1, Ohio.



*Monoammoniumphosphate treated with a silicon resin.



Branches: Atlanta, Baltimore, Boston, Chicago, Dallas, Dayton, Detroit, Los Angeles, New York, Newark, Philadelphia, Pittsburgh, Portland, Rochester, San Francisco, Toronto (Ontario).
Representatives and Distributors in all principal cities.

Small Business and Associations

—From page 9

compensation cases involve conveyor equipment.

Whatever the accident rate is in a plant, it is higher than it needs to be. The best way to reduce it is to *prevent human error*. Here are 10 rules recommended by the Conveyor Equipment Manufacturers Association:

1. If you *must* engage in horseplay, confine it to recreation areas away from the job. A practical joke is the least acceptable excuse for an accident.
2. Use a conveyor only for its designed purpose. This means you should not *ride* on a conveyor, if it is not intended to convey you.
3. Use facilities provided for passing over, under or around conveyor lines. Don't step or climb over any type of conveyor.
4. Load conveyors in such a way that no materials project over the sides or reach so high they may fall off or

be scraped off. Be especially conscious of aisle space needed for turns. Convey small or awkward objects in baskets or boxes.

5. Avoid loose clothing or accessories that may get caught in machinery or moving materials. Long neckties, open sleeves, and open jackets are hazards for men; and long, loose hair, bracelets, and beads are hazards for women on some jobs.

6. Unless authorized to make repairs, do not make them. Report the need to a supervisor. This also applies to major oiling and grease jobs.

7. Before beginning work around a conveyor, find out where emergency controls and stops are located. Don't hesitate to use them, when necessary. Stop motors before attempting to clear a choked conveyor.

8. Be a good housekeeper. Keep aisles as clear as possible at loading and unloading points. Immediately clean up spilled liquids, grease, or powders.

9. Never remove safety devices, such as guard rails or gear covers, while conveyors are in operation.

10. Keep fellow employees in mind. Be sure everyone is clear when motors are started. Remember protruding loads may clear you but not someone else along the line.

Safety directors report employees around smooth-running modern equipment are subject to the same kind of lapses that cause accidents on turnpikes. The physical effort is so light, they are not kept alert to danger.

Association Award Deadline

Recommendations for the 1961 National Safety Council's Association Award must be made before Mar. 1, 1961. The award is presented to the association whose safety activities during 1960 most qualify it for such recognition.

In instances where industry safety and other management personnel are aware of outstanding safety activities on the part of an association, they are urged to invite the association to participate in the award competition. Check with the association executive to be sure the association is availing itself of this opportunity for possible safety recognition.

Additional information may be obtained by writing to the Small Business and Associations Division of the National Safety Council.

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WHEN OXYGEN IS NEEDED... EVERY SECOND COUNTS

Portable medical oxygen is a fast-growing new concept in the field of oxygen therapy. Its life-sustaining application in heart attacks, shock, asphyxia, drowning... its vital breathing assist in respiratory illnesses, asthma, fainting—now demonstrates the importance of an immediately available supply of medical oxygen.

In the business office and at the plant... in the physician's office and in every police car... in the home and on the train... wherever people work... wherever they play... on whatever they travel... and wherever they live, **METROX** has earned a permanent position for whenever and wherever an emergency arises.

Exclusive Metrox Valve: Precision engineered **METROX** valve unit combines 72 separately designed parts into a *single assembly* and does away with old-fashioned multi-dial units. Tested in excess of 10,000 times. Its precise tolerances established to insure a dependable, constant flow of emergency oxygen at a regulated rate.



56 LITER UNIT



305 LITER UNIT

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NEW POWER! PEN/AX is scientifically blended into every pound of Ice-Foe for (1) **power penetration** to the bottom of the ice barrier (not merely surface melting!) . . . (2) **synergistic action** for sustained, more efficient melting over the complete range of winter temperatures!

NEW LOOK! big, rugged particles for deep, long action . . . added to the familiar small, round particles which give you Ice-Foe's famed trigger-fast speed!

ECONOMICAL—faster, more complete action than ever—at no increase in price! A little goes a long way.

SAFE—non-toxic—will not harm vegetation, roadways, tires, shoes. Non-corrosive, with Noxide added!

EFFICIENT—easily applied manually or with mechanical spreaders.

CLEAN—leaves no chalky residue to be tracked inside.

available in economical 100-lb. blue drum with white lid from your sanitary supply jobber, or write **WALTON-MARCH** P.O. Box 248, Highland Park, Illinois
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Wire from Washington

—From page 17

worthy: that for the first time a dry dock and ship-repairing company was closed by a federal injunction obtained by a federal official because of hazards; that federal aviation authorities admit to a "mania for safety"; that a major reorganization in the U. S. Public Health Service was proposed in the field of safety; that the Federal Safety Council has recommended

installation of safety belts in all government-owned vehicles.

Nor can we overlook the views expressed by congressional leaders, although they have not yet been incorporated into new laws. Congressman Roberts, chairman of the House Subcommittee on Health and Safety, told the Congress this year that "persuasion is not enough," that the country cannot afford to wait for state action, and that federal legislation is needed to cope with traffic accidents.

The chairman of the House Committee on Interstate and Foreign Commerce, in a report on his committee's activities during 1960, told Congress of "the committee's continuing interest in traffic safety."

And the House Committee on Science and Astronautics called on government and industry to plan a nationwide attack on the noise problem and to hold a series of government-industry conferences to develop the necessary efforts.

Saying "noise problems are more acute than ever," and noting various detrimental effects of noise on health and safety, the committee urged a coordinated program of research, of better industrial aircraft and engine design, better airport planning and zoning, and public education.

This has been a quick summary of the first and the last years of the outgoing administration. It may give you some inkling of the vast expansion of Washington's interest and activities in safety.

Perhaps, it may be more helpful to you if I retrace my steps and briefly outline the major developments during these past eight years in some particular fields of safety concern.

Traffic Safety. The outstanding legislative development in traffic safety during this period was the enactment in 1956 of the largest road-building program in American history, committing the nation to the expenditure of more than 30 billion dollars for highway construction.

Safety was one of the main legislative justifications. Congress was informed that completion and modernization of the interstate highway system would save 3,500 lives each year.

Congress also enacted other important traffic safety legislation. In 1958 it passed the Interstate Compact Bill, P.L. 85-684, granting its consent to the states to negotiate and enter into compacts to promote highway traffic safety.

This law, the first to result from activities of the Roberts committee, has been ignored in practice, although it was intended "as a catalytic agent to get the states to achieve some uniformity in their rules and regulations."



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COMFORT: "More flexible and better fit, partly due to wing thumb which former glove did not have. Riegel gloves are also cooler around 2000°F heat and softer around water."

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It is significant that this year AAMVA's executive director urged the states to use this compact law as a "means of preventing the federal government from entering the field of traffic safety and traffic accident prevention."

There was still other significant congressional action this year:

1. Enactment of the Driver Register law, P. L. 86-660, for the establishment of a federal register of persons whose operator's license or permit was revoked because of driving while intoxicated or for conviction

of a safety violation involving loss of life.

2. Passage of the National Capital Transportation Act, P. L. 86-669, to aid in the development of a comprehensive transportation system for the District of Columbia, largely because of traffic congestion.

3. House passage, by better than a two to one vote of H. R. 1341, to establish federal safety standards for federally-owned motor vehicles.

4. Introduction of H. R. 13,138 (Roberts) to establish federal safety standards for motor vehicle brake

fluids "to eliminate a very serious highway accident hazard."

Federal air pollution control has been urged to cope with noxious auto exhausts. A National Conference on Air Pollution, held in 1958 at the invitation of the United States Public Health Service, laid considerable blame on the automobile. In 1959 Congress voted a four-year extension of the Federal Air Pollution Control Act, P.L. 86-365.

In 1960 Congress enacted P.L. 86-493, providing for a two-year study of auto exhausts by the USPHS as a basis for "feasible control measures." And recently the USPHS created a new Division of Air Pollution to study the sources, effect, and control of air pollution.

The catalog of major developments in traffic safety continues:

1. Creation in 1954 (and formalization in 1960) of the President's Committee on Traffic Safety.

2. Appointment in 1959 of a permanent standing Subcommittee on Health and Safety in the House of Representatives with continuing jurisdiction over traffic safety.

3. The report of the Secretary of Commerce in 1959 with its major recommendations for substantial areas of federal responsibility and action.

4. The U. S. Public Health Service's proposals in 1960 for governmental reorganization better designed to cope with the general accident problem; its periodic extensive analyses of accidents in the National Health Survey; and its recent publication views that a 50 per cent reduction in traffic deaths and serious injuries was a feasible target for 1970.

Let's you think that only Congress and the executive establishments act in the field of traffic safety, let me point out that in 1957 the Supreme Court of the United States ruled that a state chemical blood test for alcohol was constitutional.

In justifying its decision over a minority the Court said, citing National Safety Council figures: "The increasing slaughter on our highways, most of which should be avoidable, now reaches the astounding figures heard of only on the battlefield."

Industrial Safety. Apart from various specific fields which shall be dealt with separately, Washington's main attention to safety was in connection with atomic energy. In 1957 Congress voted a vast insurance program, P.L. 258, pro-

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any man can weed-proof 10,000 sq. ft. in ten minutes

with **UREABOR®** This is the weed killer that's setting new standards for big economy with maintenance men from coast to coast. During the past six years, users have proved that, for low cost, safety, effectiveness... ease of application... UREABOR can't be beat!

Here is the dry granular weed-killing material that is always ready for you to use. There's nothing to mix — no water to haul. To destroy unsightly and hazardous weeds and grasses for a full season, you'll only use 1 to 2-lbs. per 100 sq. ft. That's because UREABOR combines the plant-destroying powers of *two* proven herbicides to

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A special spreader is made to apply UREABOR uniformly and fast at low rates. Its low-cost does not reflect the tremendous value of this spreader to any user of UREABOR since it enables a man to weed-proof any area at the rate of a thousand feet per minute! If you have a weed problem, we want you to have the full story about UREABOR weed killer. Write today for details and name of a near-by distributor.

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viding half a billion dollars of government insurance for damages resulting from nuclear accidents in private industry, with the government to assume liability in excess of private insurance coverage set by the Atomic Energy Commission.

The same law also established the Advisory Committee on Reactor Safety. In 1957 the Senate also ratified a treaty creating the International Atomic Energy Agency, endowed with authority over important international safeguards for health and safety.

In 1958 the U. S. Public Health Service created a Division of Radiological Health to provide technical assistance to states in medical and industrial activity involving public exposure to radiation.

In 1959 Congress created a Federal Radiation Council, to centralize responsibility for general standards and guidance to executive agencies in developing rules and regulations for radiological health protection.

The same law, P.L. 86-373, authorized the states to assume some degree of regulatory responsibility for protecting the public from radioactive hazards. The AFL-CIO has urged a drastic overhaul of this latter provision of law.

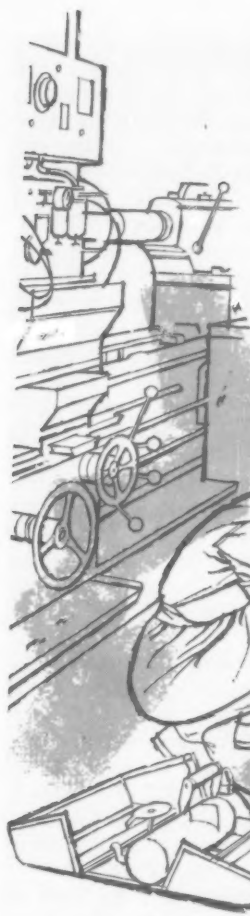
This year the AEC created the Office of Assistant Manager for Regulation and Safety as well as an Aerospace Nuclear Safety Board to consider safety problems associated with the use of nuclear energy in space.

And the National Naval Medical Research Center at Bethesda, Md. opened a Radiation Exposure Evaluation Laboratory, designed to study and develop treatments for victims of accidental radiation exposures and for biochemical studies on radiation effects on living tissues.

A U. S. Court of Appeals ruled this year that the AEC must make adequate safety findings before it issues a permit to construct a nuclear power station.

AEC is appealing the decision, claiming it would be allowed to make such finding only before it issues a license to operate a plant that has already been constructed.

Throughout a major part of this administration, there has been continued controversy over the control of radiation dosage. Radiation ex-



asphyxiation can be fatal



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The E & J will get oxygen into the victim's lungs despite partial blockage, and breathes automatically for the patient until normal breathing can be restored.

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posure levels now in effect are to be sharply reduced January 1, 1961.

AEC's new restrictions for the protection of employees in nuclear industries will reduce the allowable life-time accumulated dosage for workers to about one-third of that now allowable. The rule also allows the public at large to receive not more than 10 per cent of the maximum exposure permitted radiation employees.

In other industrial fields 1954 saw a reorganization of the safety and coal mine inspection activities

of the U. S. Bureau of Mines, and a presidential directive to all federal agencies to establish effective safety programs to protect federal employees from accidents. The President also set up the President's Safety Award for government agencies.

In 1957 the President recommended legislation for federal grants to states for their programs of occupational safety, but Congress took no action. In the same year, the U. S. Supreme Court extended the applicability of the Federal Safety Ap-

pliance Act, contrary to a 60-year-old more restrictive ruling of the Interstate Commerce Commission.

In 1958 the Army established a Civilian Committee on Safeguards for Army Air Defense Weapons, to review the adequacy of safety measures for all Army air defense systems in the United States.

Enacted in the 1960 congressional session, P.L. 86-762 requires reporting of railroad accidents, even if they didn't occur in the course of transportation.

And S. 743, which would have expanded the applicability of the Federal Coal Mine Safety Act to mines employing 14 or fewer employees, under certain conditions, was approved by the Senate and by the House Committee on Education and Labor, but did not receive final House action.

Aviation Safety. The major legislative landmarks in aviation safety during the past eight years were the Federal Aviation Act of 1958, P.L. 85-726, and the Federal Airport Act in 1959, P.L. 86-72.

The first-mentioned law affected a major reorganization in federal control of aviation, and was specifically justified on the basis of safety; it created an independent Federal Aviation Agency authorized, among other things, to make and enforce safety regulations governing the design and operation of civil aircraft.

In signing the Airport Construction Act, the President said it took a major step toward the use of federal funds "exclusively for airport development projects which contribute to the increased safety of air travel."

In a period of well-publicized air crashes, the FAA claims it has been motivated by a "mania for safety" in its vigorous enforcement program. A variety of regulations have been issued and researches undertaken, with safety often as the general justification.

Some subjects covered may illustrate the approach taken: pilot health, age and proficiency; flight levels and controls; landing systems; anti-collision devices and research; training programs; and repair and maintenance programs, facilities and inspections.

FAA also established a new Bureau of Aviation Medicine. The

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Wherever vision and comfort are improved, accidents are less likely to happen. When they do happen, you want maximum protection.

This new B&L goggle helps all 3 ways: improves vision, provides more comfort, gives maximum protection.

Made of molded rubber, with soft-rolled edges, it shuts out chemical vapors while it gives up to 15% wider field of vision. B&L impact-resistant safety lenses, in S-7 shape, measure 66 x 59 mm. Deep lens grooves assure positive lens seating.

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CAB created a Safety Investigation Division to increase the efficiency of accident investigations.

Marine Safety. Two new laws predominate in this field. The Federal Boating Act of 1958, P.L. 85-911, required the numbering of small recreational boats and the reporting of accidents.

A 1958 amendment to the Longshoremen's and Harbor Workers' Compensation Act, P.L. 85-742, authorized the Secretary of Labor to set up a system of safety rules,

regulations, and inspections for the longshore and ship-repair industry.

In 1959 P.L. 86-244, authorized the U.S. Coast Guard to prescribe regulations governing lifesaving and other safety-related equipment, "in the interest of improved safety aboard vessels."

International developments played an important role in maritime safety. In 1958 the Inter-Governmental Maritime Consultative Organization was established as an arm of the UN; the new agency will

administer the International Convention for Safety of Life at Sea. And in 1960 an international conference proposed extensive amendments to this convention, which will have to be submitted to the Senate for ratification.

Commercial Transportation. Congress amended the Transportation of Explosives Act in 1960, P.L. 86-710, to expand the ICC's jurisdiction to include radioactive materials and etiological agents and to provide penalties in certain circumstances for private and contract carriers.

Administratively, the ICC embarked on a new approach to safety violations in 1957, substituting suspension or revocation of operating certificates instead of federal prosecution for safety violations.

In 1958 the ICC conducted its first nationwide bus check and revealed that 13.1 per cent of all inspected vehicles had four or more violations of its Motor Carrier Safety Regulations.

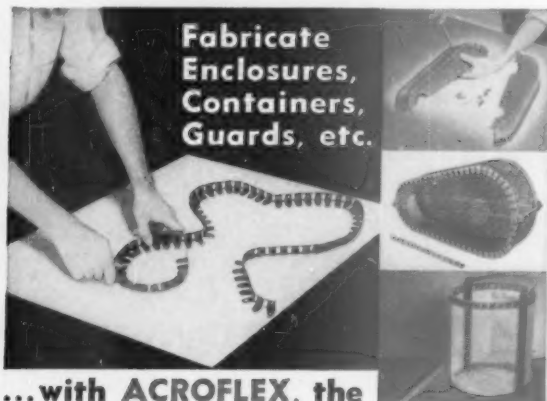
Farm Safety. In 1959 the U. S. Department of Labor imposed stricter safety requirements on employers in transporting Mexican migrant farm laborers imported into the United States. The Secretary said the new regulations were necessary because the problem was "generally inadequately covered by state laws."

In the same year the Attorney General of the United States ruled that the Secretary of Labor, in administering the federal farm placement program, could legally give consideration to safety criteria in determining whether domestic farm laborers should be placed in certain jobs.

Public Safety. A variety of public safety measures received congressional, executive, and judicial consideration. In 1953, as already stated, Congress passed the Flammable Fabrics Act, P.L. 88, providing for safety standards to protect the public against dangerously flammable fabrics.

In 1954 P.L. 385 was passed to prohibit the transportation of fireworks into any state forbidding their use or sale. In 1955 P.L. 159 provided for a five-year program for

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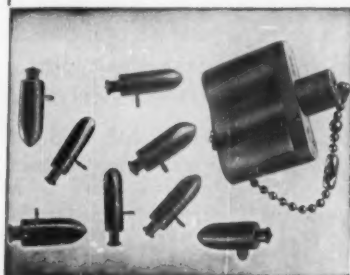
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only the best,
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14" x 19".

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non-pinching,
shielded joints.

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Truss rods
and knee
braces under
every step.

Sizes
(platform
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3' to 18'.



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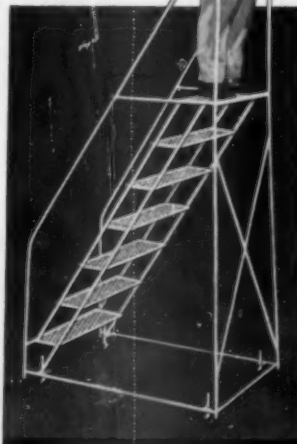
"TROUBLE SAVER" Safety Ladders by...PS CO.

- Flared design
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- Steel or Aluminum



STEEL LADDERS WITH HANDRAILS

20" and 30" widths,
from 2-step to 12-
step in heights from
19" to 114" to top
step. With casters,



offer many
opportunities
for
labor-saving
economies

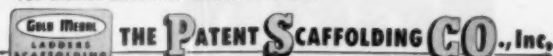
STEEL LADDERS WITHOUT HANDRAILS

20" and 30" widths,
from 1-step to 5-step in
heights from 12" to
47 1/2" to top step. With
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Safe ladders...

Save lives!

(600)



Slipping ladders cause more accidents...and result in more injuries...than any other single hazard, according to a recent survey by the Wisconsin Industrial Commission. This disgraceful fact is all the more disturbing because there is absolutely no excuse for most of these accidents. The simple inexpensive installation of Safe-Hi ladder shoes is your guarantee against accidents...which of course mean man hours lost, work stoppage, compensation. Ladder shoes eliminate both need and expense of second worker holding base of ladder.

Shoe tread construction of both neoprene and fibrous material gives maximum protection against ladder slipping on any industrial surface whether wet or dry, soapy, greasy or slick. Straight ridge design crosses line of slippage and acts as a series of squeegees in scraping off foreign substances thus insuring a good grip on any surface. Added feature is a self-sharpening spike which can be readily positioned for use in ice, snow or gravel.

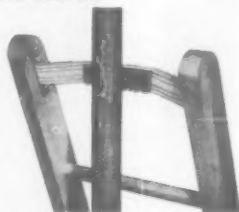


Safe-Hi Wall Grip (640)

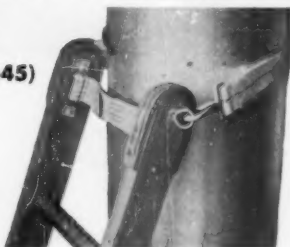
The Safe-Hi wall grip holds the top of the ladder securely on all smooth walls. Prevents side slipping and helps to hold the bottom of the ladder.

Safe-Hi Pole Grip (632)

The Safe-Hi pole grip holds top of ladder on any pole, pipe or corner. Fits any ladder. Helps prevent ladder tipping.



(645)



Safe-Hi Ladder Lash

The Safe-Hi ladder lash is quickly attached to any ladder. Strap made from 2800 lb. tensile strength parachute webbing with forged steel snap. Lash features quick adjustment slide that gives positive hold on pole.

Complete information on any Safe-Hi Safety equipment; write for free catalog.

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the control of air pollution (a program extended for four years in 1959 by P.L. 86-365).

In 1956 Congress enacted P.L. 930, requiring the installation of inside safety latches on all household refrigerators sold in interstate commerce, such latches to meet federal standards.

In 1958 the Chemical Additives Law, P.L. 85-929, forbade the use of chemical additives in food without prior proof of their safety for such use.

In 1959 the U.S. Supreme Court sustained the action of the Secretary of Health, Education, and Welfare in barring the use of certain coal-tar colors for oranges as being toxic and not harmless under the law.

In 1960 several public safety laws were enacted. The Hazardous Substances Labeling Act, P.L. 86-613, requires manufacturers to label products intended or suitable for household use, and where a hazard is involved to list the products ingredients and, where necessary, indicate an antidote.

The Color Additives Amendment to the Food, Drug, and Cosmetic Act, P.L. 86-618, requires users of all color additives to establish their safety prior to use, and includes an anti-cancer clause barring use of cancer-inducing additives.

The U. S. Public Health Service has been active in related fields. In 1957 it established its Accident Prevention Program to serve state and local health departments.

In 1958 the first results of its National Health Survey revealed a higher estimate of accident incidence than previously accepted. In 1959 it would have been affected by a far-reaching bill, H.R. 9243 (Roberts) to create a National Accident Prevention Center in the Public Health Service.

In 1960 the Secretary of Health, Education, and Welfare proposed a reorganization to expand the service's programs in environmental health hazards and health statistics.

Now what does this eight years of activity mean? Is it a passing phenomenon or merely a harbinger of things yet to come?

It's fitting that I look to President Eisenhower for clues to an

analysis of developments during his administration.

In 1957 he spoke to the annual Conference of State Governors on the relationship between the federal and state governments. He said:

"As for traffic safety, this, happily, is still a state and local responsibility. But day by day the American people are paying an increasingly fearful price for the failure of the states to agree upon such safety essentials as standards for licensing of drivers and vehicles and basic rules of the road."

In connection with traffic fatalities, the President warned "We simply cannot let this go on." Then he issued a challenge to the governors:

"Who is going to fill the vacuum? Someone must and someone will. Are you willing that, once again, it be Washington, D. C.?"

The President stated his principles:

"I believe deeply in states' rights . . . But it is idle to champion states' rights without upholding states' responsibilities as well."

And he urged action to avoid the "new vacuums into which the federal government will plunge ever more deeply, impelled by popular pressures and transient political expediencies."

In answer to the President's challenge to the governors, he and they in 1957 appointed a Joint Federal-State Action Committee, composed of governors and top-level federal officials. In 1960, on its own request, this committee was dissolved by the President. Its final report gives this closing advice to the nation:

"The best way to avoid an unnecessary concentration of governmental responsibility in Washington is to prevent in advance, wherever possible, the need for 'crash' programs involving the federal government. In some measure the present degree of federal participation in state and local affairs reflects previous failures to anticipate needs. This failure in a sense creates a vacuum into which the federal government irresistibly moves or is forced."

The vacuum feared by the President in 1957 still seems to exist in 1960. Will the federal government continue to move into it "irresistibly?" The answer depends to a

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to solve bridge fitting problems with **MULTI-FIT BRIDGE**

In 1957, Fendall pioneered the amazingly versatile Multi-Fit Bridge. Available in acetate and metal frames, this patented one bridge size automatically fits 9 out of 10. Self-adapting to wearer's face, no involved try-ons, no bridge adjusting. Fit practically every worker with one bridge size. Reduces inventory. Proved most comfortable . . . thousands in daily use.



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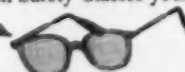
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great degree on whether there is a vacuum and how serious it is.

It is not too far-fetched to compare our federal system of government to a balance scale, with the federal government on one side and the states and local governments on the other, and private enterprise as the fulcrum.

To the extent that the efforts of state and local governments are light on the scale, the federal side of the balance is heavier to maintain the constitutionally-conceived balance.

In this sense, federal activity is only a result of the failure of state and local governments to carry their full load. I need not outline the responsibility of private and voluntary safety efforts in assuring the effective operation of the constitutional balance.

Perhaps one of the major driving forces in safety during the past eight years has been the increasingly insistent "Let's do something" attitude of the American people. It is the peculiar genius of our system of government that often such persistent and unsatisfied demands are ultimately reflected in congressional action.

In general terms we are dealing here with something far broader in its application than safety alone. It touches on the nature of our federal system of government. It goes to the heart of the division of responsibilities between the federal and state governments, and raises fundamental questions whether the federal system is working satisfactorily.

I should like to limit my sights to the question of safety. On a purely personal basis, I would venture to address two questions to the safety movement:

1. As a result of the failure of the states and local governments to cope with the safety vacuum to which the President called attention, was the period of the '50's the decade of creeping federalism?

2. In the face of the warning from the Joint Federal-State Action Committee that "political institutions cannot remain static in the context of economic and social changes," will a continuance of such state and local safety vacuums make the '60's the creeping federalism decade?

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Give a heavy-handed employee who thinks quantity means efficiency an open can of soap and you've got WASTE! Odds are that man will grab enough cleaner for FOUR wash-ups. He's flinging the biggest part of your handcleaning dollar down the drain. Multiply his carelessness by the number of your employees and the number of wash-ups per day and you'll know why the company treasurer has an ulcer!

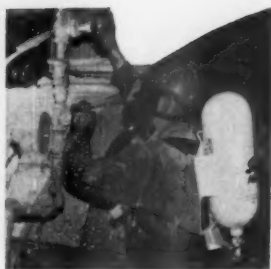
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TO PROMOTE
HANDCLEANING ECONOMY**

The Go-Jo Heavy Duty Dispenser guards your handcleaning dollar like a miser! Precision engineered to eliminate waste, the Dispenser delivers the right amount of Go-Jo to get even grimmest hands spotlessly clean -- and one pull of the handle does it! It's designed to accommodate the 4½ lb can of energetic Go-Jo Creme Hand Cleaner, which, as you know, contains anti-septic GT-7 for dermatitis protection plus soothing emollients to prevent chapping. Go-Jo is a concentrated formula that goes four times further when used with the Go-Jo Heavy Duty Dispenser.

Your Gojer jobber will show you how to pare as much as 75% off your handcleaning expenditures. A few minutes is all it takes. The Go-Jo jobber in your area is eager to serve you. WRITE US TODAY for his name.

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☐ Pak-Alarm Specification sheet.

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September Calendar Contest



No train was supposed to be there!
So Jake just plain didn't use care.
That plain old mistake
Was the end of poor Jake

Margaret Camp (Individual Member), Salt Lake City, Utah, won the \$100 first prize in the National Safety Council's September Safety Limerick contest with this final line: "Tracks need PAUSEtive approach everywhere!"

The contest appears monthly on the back pages of the Council's calendar. The theme for the September contest was "Don't Be Surprised!"

Second prize of \$50 went to Harold D. Cotner of the Kaiser Steel Corp., Fontana, Calif. His entry was:

"LIFE IS FRAGILE—don't handle with DARE."

Mrs. Lois Howard, Burlington Industries, Dallas, Tex., won the \$25 third prize for this suggestion:

"A rain check on train check is rare!"

The 30 winners of \$5 prizes are: Miss A. Sennholtz, American Brake Shoe Co., Chicago Heights, Ill. T. V. Smith, McDugal Livestock Co., Collinsville, Calif.

Mrs. Wayne Thayer (Individual Member), Byron, N. Y.

Mrs. Anthony R. Moccia, Stauffer Chemical Co., Monongahela, Pa.

Miss Nancy Baker (Individual Member), St. Louis, Mo.

Mrs. J. Donough Posey, Sr., Pratt Coal Co., Birmingham, Ala.

Mrs. Bernice McMahon, Nortronics, Hawthorne, Calif.

Mrs. A. H. Macy (Individual Member), Edina, Minn.

Mrs. Gloria Whitman (Individual Member), West Monroe, La.

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Miss Judy Burosh, Standard Oil Co. (Ind.), Whiting, Ind.

Clarence W. Whitworth, Curtis Wright Corp., Wright Aero Div., Fairlawn, N. J.

Charles Nutter, International Business Machine Corp., Endicott, N. Y.

M. J. Pitteroff, Kaiser Steel Corp., Fontana, Calif.

Hubert Kilter, Alpha Portland Cement Co., LaSalle, Ill.

E. John Wilson, American Pulley Co., Philadelphia, Pa.

B. Coursin Black, Colyear's Motor Sales, Phoenix, Ariz.

Isaac V. Davis, Hercules Powder Co., Hopewell, Va.

Miss Dorothy Finkbiner (Individual Member), Salem, Ore.

William F. Roeschel, New Jersey Div. of Veterans' Service, Westville, N. J.

Sylvester Hosman, New England Electric System, Salem Harbor Station, Salem, Mass.

Miss Ellen Welch, Port of New York Authority, New York.

Mrs. Kenneth Zeller, Consumers Cooperative, Kansas City, Mo.

Marlin J. Shorts, Metropolitan Edison Co., York Haven, Pa.

John A. Stewart, United Appeal of Greater Cleveland, Cleveland, Ohio.

Thornton Bauer, The Nelson Co. Inc., Louisville, Ky.

Roger W. Dana, Kimberly-Clark Corp., Neenah, Wis.

Larry Kelley, Yellow Cab Co., Los Angeles, Calif.

Mrs. Clara B. Andrews (Individual Member), Abbeville, Ala.

Mrs. Paulene Young, Corn Products Co., North Kansas City, Mo.

John A. Pearce, Bush Beryllium Co., Elmore, Ohio.

GEORGE A. LAHUSEN

GEORGE A. LAHUSEN, general safety supervisor for the Crown-Zellerbach Corp., Portland, Ore., accidentally drowned October 5 near his San Juan summer home. He was 48.

Mr. LaHusen had worked with Crown-Zellerbach for the past 27 years. He had been scheduled as a speaker for the 1960 National Safety Congress in Chicago.

He was active in the NSC Pulp and Paper Section and the Wood Products Section, the Pacific Coast Association of Pulp and Paper Manufacturers, also the Pacific Northwest Personnel Management Association, the American Society of Safety Engineers and the Forest Products Safety Conference.

KEEP YOUR MEN HOPPING... ON "CARPET-SAFE" FLOORS!

SOL-SPEEDI-DRI®

spreads in seconds, works in minutes...cleans, absorbs oil, grease, liquids for weeks!

All it takes is one man with a rake or broom and a bag of SOL-SPEEDI-DRI to do the job. Super-absorbent SOL-SPEEDI-DRI granules soak up deep deposits from pores of wood or concrete! Non-burning, mineral SOL-SPEEDI-DRI smothers fire! Inexpensive, reusable until completely saturated. Each lb. contains over 13 acres of absorptive area.



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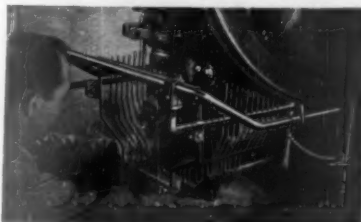
283 ESSEX TURNPIKE

MENLO PARK, NEW JERSEY

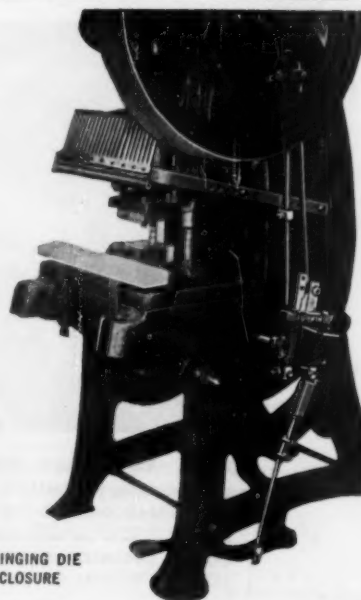
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costs with...

JUNKIN Safety Guards

Invest in safety—accidents cost money! Junkin Safety Guards for primary and secondary punch press operations afford maximum protection, increase press production and lower insurance rates. Swinging Die Closure is constructed to be adaptable to a variety of primary operations.



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CLOSURE



INTERLOCKING
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GUARD

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Write for Free Catalog
"THE KEY TO PROTECTION"

JUNKIN SAFETY APPLIANCES
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Ready Made EYE SAFETY SIGNS



**EYE HAZARD
EYE PROTECTION
MUST BE WORN
IN THIS AREA**

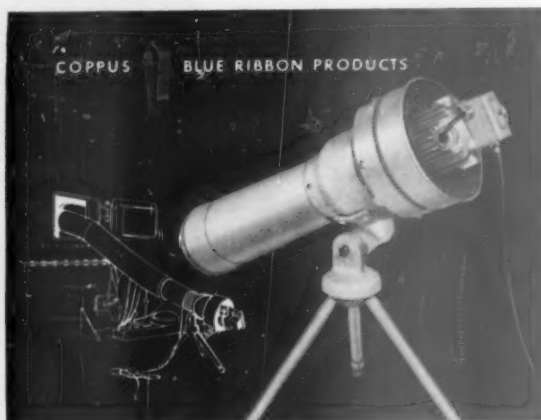
READY MADE SIGNS are made in accordance with American Standards Association Specifications for Industrial Accident Prevention.

DANGER
DO NOT ENTER
WITHOUT
WEARING GOGGLES

CAUTION
WEAR GOGGLES
WHEN USING
THIS MACHINE

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SIGNS FOR SAFETY

Ready Made
SIGN COMPANY, INC.
Dept. NS-12, 115 WORTH STREET, NEW YORK 13, N. Y.



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132 Park Avenue, Worcester 10, Mass.

- ☐ in tanks, tank cars
- ☐ in underground manholes
- ☐ for exhausting welding fumes
- ☐ on boiler repair jobs
- ☐ for general man cooling
- ☐ to stir up stagnant air wherever men are working or material is drying

Name.....
Company.....
Address.....
City.....

**COPPUS
BLOWERS**

Eye, Foot Protection

—From page 19

departments, and plantwide in about a quarter of replying firms.

But where the use of eye and foot protection is a must, disciplinary action occasionally is necessary for employees who don't cooperate. This sequence involves reprimand, verbal or written warning, layoff, and discharge. Discharge has been used only as a last resort and in few cases.

Although workers aren't permitted to select the type of safety glasses required in their case, employees in three-quarters of plants queried may choose the style of safety glasses needed. The same proportion of plant operations advise glasses with prescription ground lenses.

Prescription lens costs are borne by the company in more than a third of the plants and by workers in a quarter of the firms, with another third of operations favoring a combination of financing. This might be in the form of 50-50 cost sharing; the worker paying the first \$5; the firm assuming four-fifths of the cost; the plant paying the first \$2.50 to \$10; or the firm buying the frames and the worker handling cost of prescription and lenses.

Regarding replacement of safety glasses, almost half of the plants put this expense on the company tab, with workers in about a quarter of operations financing the replacements themselves. Another third of the firms use a combination of plans, much like those mentioned in the previous paragraph.

Eye examination costs, the survey showed, are paid for by employees in almost three-fourths of the plants, with a tenth of the firms taking care of these costs, and a fifth of operations preferring combinations of financing.

Seven per cent of replying plants provide prescription safety glasses in hazardous occupations only. Forty-five per cent of respondent firms will provide this type of glasses for any occupation. The remaining plants surveyed don't provide prescription safety glasses.

Many plants reported eye injury cost reductions or the lowering of accident rates in connection with eye protection programs. Companies

indicated their successes by such comments as:

- "No loss of eyes in 20 months."
- "Cut to few minor injuries."
- "Greatly reduced."
- "75 per cent reduction in injuries."
- "Reduction in accident rate by 20 per cent."
- "Eye injuries are 1/2 of 1 per cent of all injuries."
- "Saved six eyes."
- "Injuries practically nil."
- "No injuries."

Analyses of foot protection practices among respondent plants indicate an average of about 50 per cent of their plant personnel wear safety shoes, including safety boots in wet operations.

A tenth of replying plants say they have special operations where safety shoes or boots are provided at no cost to the employee. These operations involve mining, salvage yard operators, sand blasting, plating, anodizing, handling of chemicals, and all wet operations.

Where workers must buy their own shoes, many do so through payroll deductions. About two-thirds of plants cooperating in the inventory sell safety shoes to their

employees. Of these, six per cent sell shoes below cost; 67 per cent at cost; and 3 per cent at cost-plus; remaining plants made no comment.

Some plants stock shoes on their premises or will place orders. Other organizations have shoemobiles periodically visit their employees or arrange for local purchases.

Here are more comments by plants reporting foot-injury cost reductions or lessening accident rates because of foot protection activities:

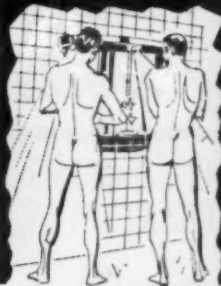
- "Many percentages from 30 to 100—averaging about 70 per cent."
- "Two minor injuries since 1951."
- "Several per year to none last year."
- "Two foot injuries last three years."

In putting over their safety shoe programs, replying plants listed various factors for success. These included having shoes available in plant tool stores; selling shoes at cost or below cost through payroll deduction plans; publicizing a wide selection of good quality, stylish shoes at low cost; plus actual prevention of toe injuries. Plants also displayed safety shoes and provided constant publicity regarding prevention of injuries by safety shoes.

NEW ECONOMICAL SHOWERS

BRADLEY

WALL-MOUNTED TYPE
THREE- OR
TWO-PERSON UNITS



Here's another Bradley Multi-Person Shower—the new Wall-Mounted Type—two or three showers in one self-contained unit.

You can have Showers at low cost because installation on wall at any height requires but one set of piping connections—no floor space is needed and each bather has individual control of water volume and temperature.

Made in stainless steel or enameled steel (in white and six decorator colors)—attractive, self-contained and assembled. For dimensions and other data see page 2 of new Shower Bulletin H-1322. Copy mailed on request. BRADLEY WASHFOUNTAIN CO.
2237 West Michigan St., Milwaukee 1, Wis.



BRADLEY
multi-person showers



Write for
Bulletin H-1322

VALUED FOR

Depend- ability



**T
M**

**alloy
slings**



TM Alloy Slings have a reputation for dependability . . . brute strength and low overall costs. Factory-made. Certificate of Test furnished. Bulletin 14A contains all data. Call your distributor, steel warehouse, hardware wholesaler or write—

S. G. TAYLOR CHAIN CO., Inc.
Plants: Hammond, Indiana
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Prompt repairs on alloy slings
in both plants.

**Taylor
Made
CHAIN** SINCE 1873



All Jackson Safety Caps—

The Life Guard Cap, the fiber glass cap and the Alu-micap allow pivoting of arc welding helmets, goggles and face shields from factory-installed brackets:

- **Cap-and-Helmets** with choice of three fiber glass helmet styles and three styles of glass holders.
- **Cap-and-Goggles** with three types of goggles for gas welding and grinding.
- **Cap-and-Face Shields** with plastic visors in various sizes, thicknesses, clear and in tints of green, a wire mesh and a welding lens visor.



All Jackson Safety Hats—

- **Face Shield F-1** fits the three types of Jackson hats. Two aluminum frame parts, pivoted together, hug the hat brim, are firmly held by elastic band. Same choice of visors as described above.



Jackson Products

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Sold Everywhere by Better Welding Supply and Safety Products Dealers

CLIP
FILE



News of Interest in the
Field of Noise Control

Sounding Board

"STEEL CLAD" TELEPHONE BOOTHS KEEP NOISE OUT—CONVERSATION IN



Wall Model "NOISHIELD"
Telephone Booth installed in
a machine shop.

IAC "NOISHIELD" telephone booths are engineered for high acoustic efficiency to provide ease of conversation in noisy locations or privacy of conversation where desired.

Featuring rugged steel-clad construction, attractive finishes and low cost, these booths are ideal for factories, public buildings, terminals, schools, laboratories, restaurants, stores and for all noisy locations. IAC "NOISHIELD" booths are also available in floor models.



For complete information ask for Bulletin OE-217—Dept. NS-12

INDUSTRIAL ACOUSTICS COMPANY, INC.

341 Jackson Avenue • New York 54, N.Y. • CYPRESS 2-0180

NSC Begins Christmas Safety Effort

As part of the NSC Christmas Holiday Safety Campaign, Gen. G. C. Stewart, executive vice president of the Council, has sent letters to the Council's 8,000 industrial members urging them to "dry up" office parties during the Yuletide season. These letters are the result of a Council study, showing that 55 per cent of Christmas time accidents involve a drinking driver.

The NSC Religious Safety Activities Division, coordinating this campaign, with sponsorship of The National Committee of Religious Leaders for Safety, has emphasized a "Keep Christmas in Your Driving" theme this year.

Among companies requesting a special holiday safety packet, available through the Council, are Bethlehem Steel Corp., American Telephone and Telegraph Company, and The Aluminum Company of America. Each packet contains these materials:

A letter from Arthur B. Langlie, chairman of The National Committee of Religious Leaders for Safety; two news releases, "Dry Up the Office Party," and "Moral Responsibility"; a poster and leaflet, "SAFETY EVERYWHERE . . . all the time!" stressing "Safe Holidays"; a leaflet, "Open Before Christmas"; a booklet, "Be a Winter Winner"; *Home Safety Review* reprints, "How You Can Share Safety at Home" and "Are You Your Brother's Keeper?"

The packet also includes such items as: a *Traffic Safety* reprint, "Holiday Hazards"; a timetable to orient a safety campaign; and a poster, "Thou Shalt Not Kill."

Free packets may be obtained by writing to: Christmas Holiday Safety Campaign, National Safety Council, 425 N. Michigan Ave., Chicago 11.

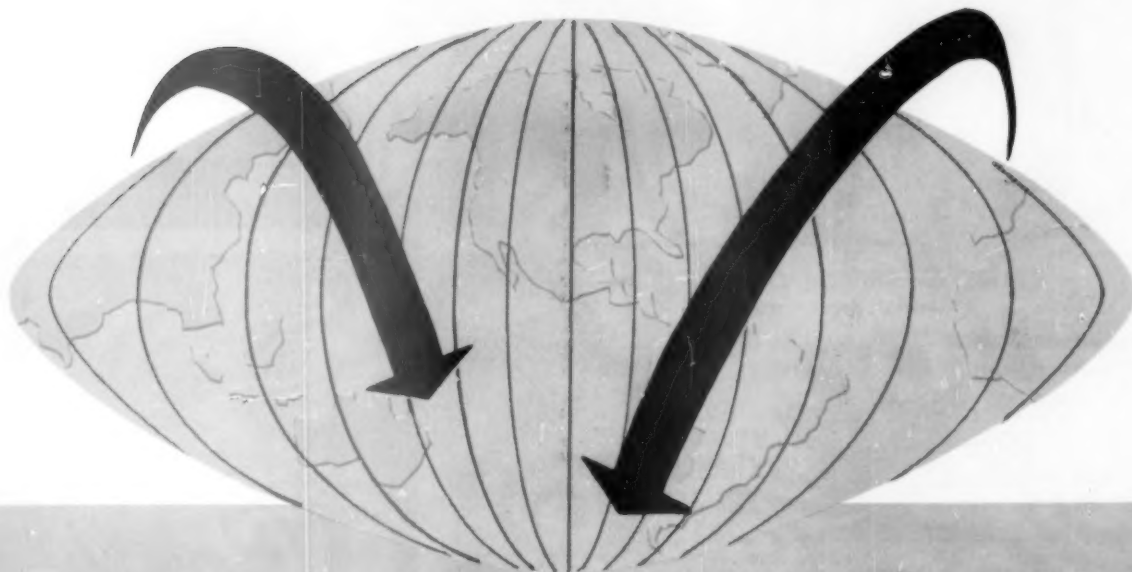
*Materials may be ordered in quantity; an order form is included in each packet.

KEEPING POSTED!



Watch this space each month for late news on NSC services. Use the handy Order Form to request sample copies of publications listed in this issue or to order safety merchandise.

DECEMBER
1960



WHERE IN THE WORLD...

Events happening in the Congo, in South America, in Indonesia are having a greater impact on the United States than they ever have in the past. The world is shrinking. The role the U. S. plays in world affairs has become increasingly significant for the welfare and prosperity of our country.

If your company has branch operations overseas, they represent a piece of the U. S. transplanted to a foreign nation. The way we conduct these operations and how we deal with the people in these countries can have a vital effect on our position in the world.

One aspect of our overseas operation which we cannot afford to neglect is the safety and welfare of our workers, whether they are Americans or natives of the country in which they are located.

Are you doing all you can to help establish a sound, continuing safety program in these overseas branches? Are you giving the managers of your overseas branches the assistance they need to carry on such a program?

National Safety Council Administrative Units may be the tools you need to keep these managers informed. As a member of the Council, you are now receiving

one or more Administrative Units. A Unit is a package of monthly, annual and special Council materials designed first to provide the basic references needed for effective accident prevention work, and second, to keep a steady flow of safety information, both technical and educational, going to the man in charge of the safety program.

Several types of Units are available. Special Units are tailored to meet the needs of specific industries, such as Construction, Transportation and others. Also additional materials may be added to any Unit, as they are required.

The cost of these Units is nominal—ranging from \$12.50 to \$31.50, with regular member discounts applying.

Materials are mailed directly to the foreign location. These locations are also added to the Council's mailing lists to receive notices, literature and catalogs as they are issued.

Use the attached order form to request a free brochure describing NSC Administrative Units. Then survey your overseas operations and determine which need the special assistance provided by the Unit.

New

POSTERS



JUMBO POSTERS
FEBRUARY 1961



SAFETY BANNER



PRINTED IN U.S.A.
© NATIONAL SAFETY COUNCIL

1857-B

17" x 23"

INATTENTION



IN HOT WATER

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© NATIONAL SAFETY COUNCIL

1912-A

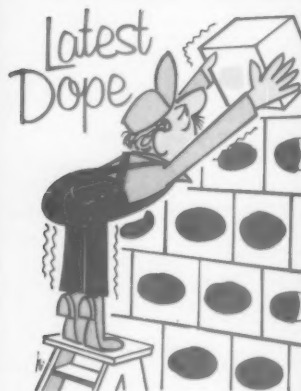
8½" x 11½"



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1919-A

8½" x 11½"



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1775-A

8½" x 11½"



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1840-A

8½" x 11½"



**STAY OUT OF
NO MAN'S LAND!**

PRINTED IN U.S.A.
© NATIONAL SAFETY COUNCIL

2039-A 8½" x 11½"

Take it from me -
Cross 'em to
stay



PRINTED IN U.S.A.
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2037-B 17" x 11"



PRINTED IN U.S.A.
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V-2025-A 8½" x 11½"

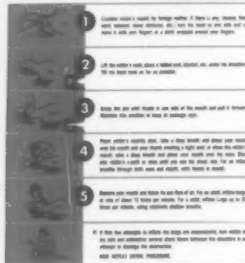
**HELP PREVENT
SIDE SWIPE**



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© NATIONAL SAFETY COUNCIL

V-2026-A 8½" x 11"

**MOUTH to MOUTH
MOUTH to NOSE**



PRINTED IN U.S.A.
© NATIONAL SAFETY COUNCIL

2027-B 17" x 23"



PRINTED IN U.S.A.
© NATIONAL SAFETY COUNCIL

1788-A 8½" x 11½"

SEE FOLD-IN

e -
cross-tie
m to
stay



PRINTED IN U.S.A.
COUNCIL

17" x 23"



PRINTED IN U.S.A.
NATIONAL SAFETY COUNCIL

1869-A 8 1/2" x 11 1/2"

VENT
PES!



PRINTED IN U.S.A.
COUNCIL

" x 11 1/2"

HELP PREVENT
SIDE SWIPES!



- LET 'EM PASS
- DON'T ROAD-NOE

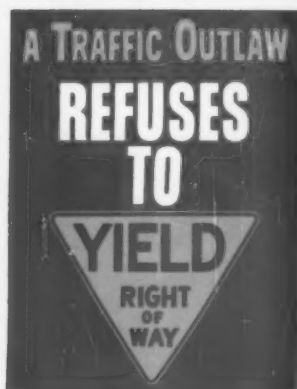
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NATIONAL SAFETY COUNCIL

V-2028-A 8 1/2" x 11 1/2"



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COUNCIL

" x 11 1/2"



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NATIONAL SAFETY COUNCIL

T-2051-C 25" x 38"
T-2052-A 8 1/2" x 11 1/2"



SEND FOR FREE
SAMPLE COPIES

EMPLOYEE TRAINING

BOOKLETS

Employee education booklets are a basic part of your safety program. Several recent booklets are described below. Sample copies of these booklets may be obtained by circling the code number on the order form or they can be ordered in quantity for prices shown.

OPEN BEFORE CHRISTMAS

A colorfully printed four-page leaflet in bright holiday colors die-cut into the shape of a gay Christmas package. Its contents are intended to serve as a reminder that the holiday season can become a time of tragedy for families when loved ones are involved in traffic accidents. Size: 6" x 3".

STOCK NO. 399.43—(sold in packages of 100) Cost per package: 1—\$2.40; 10—\$1.55; 50—\$1.20; 100—\$1.10; 200—\$1.00; 1,000—\$0.97; 2,000—\$0.95.

BE A WINTER WINNER

A new 16-page booklet, printed in attractive two colors, discusses winter driving hazards. Explains how to drive safely in spite of such hazards as determined in the most recent tests conducted by the National Safety Council's Committee on Winter Driving Hazards.

STOCK NO. 399.59—Cost per booklet: 50—\$0.65; 500—\$0.55; 1,000—\$0.50; 5,000—\$0.40; 10,000—\$0.37; 20,000—\$0.35.

KEEP ROLLING WITH SAFETY IN WINTER WEATHER

Special edition of the winter driving hazards booklet for tractor-trailer and other commercial vehicle drivers, discusses technical problems of the professional driver of heavy equipment. Many charts and schematic drawings. Sixteen pages, 5 1/2" x 8 1/2", two color.

STOCK NO. 399.58—Cost per booklet: 10—\$0.17; 50—\$0.10; 500—\$0.085; 1,000—\$0.075; 5,000—\$0.065; 10,000—\$0.06.

SEAT BELTS SAVE LIVES

This booklet tells the seat belt story, simply, clearly and convincingly. 8 pages, attractively illustrated, it should appeal to the better judgment of motor vehicle drivers who want to improve their chances of surviving accident crashes.

STOCK No. 399.31 — Cost per booklet (minimum order 50 copies): 50—\$0.08; 500—\$0.05; 1,000—\$0.045; 5,000—\$0.04; 10,000—\$0.035; 20,000 — \$0.032; 50,000—\$0.029; 100,000—\$0.026; 500,000—\$0.023; 1,000,000—\$0.021.

THE BIG PAYOFF

A colorful 12 page booklet that uses cartoons to point out the value of company safety programs. Can be effectively used to build proper employee attitudes on safety.

STOCK No. 192.16 — Cost per booklet (minimum order 50 copies): 50—\$0.09; 500—\$0.08; 1,000—\$0.07; 5,000—\$0.063; 10,000—\$0.058; 20,000—\$0.055.

POSTER PRICES*

SIZE	QUANTITIES				
	1	10	100	1000	5000
Suffix "A"		\$0.13	\$0.077	\$0.066	\$0.055
Suffix "B"		.25	.21	.17	.13
Suffix "C"	\$0.44	.33	.26	.24	.22

*NSC Members receive 10% discount on above prices. Quantity prices apply on a single shipment to one location. Please enclose check with orders less than \$3.00. Prices subject to change without notice.

NOTE: New Safety Banner and Jumbo Poster are shown as a service to regular subscribers. Non-subscribers may obtain prices and information by using order form or writing council.

IN PAGE FOR POSTER ORDER FORM

USE THIS CONVENIENT
ORDER FORM TO
PURCHASE OR
OBTAIN FREE...



**ORDER
FORM**

NATIONAL SAFETY COUNCIL
SAFETY MATERIALS

SHIP TO:

ORGANIZATION _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

TO ATTENTION OF _____

KEEPING POSTED MATERIALS
("Where in the World")

- ☐ Please send NSC Brochure describing NSC Administrative Units for overseas operations

SAFETY WISE FILM SERIES

- ☐ Please send Brochure MS 281 describing film series with price information

SAFETY POSTERS

List quantity desired
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1869-A	_____
1912-A	_____
1919-A	_____
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2037-B	_____
2039-A	_____
T-2052-A	_____
T-2051-C	_____
V-2025-A	_____
V-2026-A	_____
V-2028-A	_____

Sorry no sample copies
of posters available

SAFETY BOOKLETS

- ☐ Ship booklets in quantities indicated
☐ Send free sample as circled

STOCK No. QUANTITY

399.43	_____
399.59	_____
399.58	_____
399.31	_____
192.16	_____

Circle stock number
ONLY for free samples

SAFETY BANNERS and JUMBO POSTERS

- ☐ Please send literature, prices and information on subscription service

NATIONAL SAFETY COUNCIL MEMBERS ARE
ENTITLED TO A 10% MEMBERSHIP DISCOUNT



NATIONAL SAFETY COUNCIL

425 North Michigan Avenue, Chicago 11, Illinois



Train your employees to be ...

SAFETY WISE*

In the final analysis, a good safety program depends on the thoughts and actions of each employee. If each makes use of the safety he is taught ... if each believes in and supports the safety program ... if each regards safety as a personal responsibility ... then the safety program will be a success.

This new film series was written and produced with the individual employee in mind. Each of the three films discusses his individual responsibility for safety, his role in accident prevention, his stake in the safety program. If you're looking for a training tool that will reach your people with convincing arguments for a more personal interest in safety—then this new 3 film series, SAFETY WISE, is for you!

**The National Safety Council's
new training film series
for workers in all industry**



These 3 new, unusual, interesting and often humorous films feature animated cartoons combined with live action to dramatize and personalize safety for the industrial worker



1 171.76 — SAFE AS YOU KNOW HOW

This film depicts the story of Marty McYou, an average guy. He's upset because it seems everyone is an expert but him. The film points out he is an expert—in his job and on safety. It illustrates how knowing ... and then doing something about safety is important to him, his company and his family.

2 171.77 — NOT EVEN ONE CHANCE

In this film the audience meets J. T. O. (Just This Once) Jones. He's the fellow who takes chances and often gets into danger and trouble. The film plays heavily on the danger of this attitude and why it's important to change it. At the end of the film J. T. O. decides to change his motto to N. E. O. (Not Even Once).

3 171.78 — HELP YOUR SELF TO SAFETY

A pointed training film about George Griswold. He's the fellow that has a head full of safety facts but nevertheless still has an accident. This is an excellent film in overcoming the personal "blind spots" employees develop about their own relation to the overall safety plan.



Send for free folder MS281 today



NATIONAL SAFETY COUNCIL
425 N. Michigan Avenue, Chicago 11, Illinois

USE THE HANDY FOLD-IN
ORDER FORM TO OBTAIN YOUR
FREE FOLDER PROMPTLY.

FREE!
... to help you plan
your safety
program



2
GIANT CATALOGS
... that list the world's
largest and finest
stock of


SAFETY MATERIALS

The National Safety Council is the world's largest organization devoted to accident prevention. It offers unsurpassed facilities for serving your needs in accident prevention programming and materials. NSC distributes approximately 75,000,000 pieces of safety material a year. Thousands of items are available through these 2 catalogs.

CATALOG OF OCCUPATIONAL SAFETY MATERIALS
64 pages on booklets, manuals, training films, safety incentives, and other NSC services.

DIRECTORY OF SAFETY POSTERS
76 pages of safety posters. Illustrates over 750 posters currently available.

SEND FOR YOUR
FREE COPIES TODAY!

 **NATIONAL SAFETY COUNCIL**
425 N. Michigan Ave.
Chicago 11, Illinois

- ☐ Send NSC Occupational Catalog
☐ Send NSC Poster Directory

NAME _____
FIRM _____
ADDRESS _____
CITY _____ STATE _____

Merger

—From page 21

This can be introduced by an employer at small expense, and the employer can order most of the material from the National Safety Council.

The program also has been prepared in such a way that it can be presented to employees without requiring them to be off the job for more than a few minutes.

A program is being developed to encourage civic organizations and local safety councils to promote traffic safety.

Much good work is already being done by these groups, and the council will work and cooperate with them.

Their plan is to start such activity in one city and then to move on to other cities. At the same time they will be in touch with business firms in those cities so their programs among employees will coincide with programs conducted by civic organizations.

There is more to be done in promoting traffic safety than any organization can do at the outset. The council's aim is not to attempt too many programs at first, but rather to achieve solid accomplishments in a few fields in promoting traffic safety.

The council is aware the primary responsibility for regulation and control of highway traffic rests with public officials. To obtain satisfactory results, they need all the citizen understanding and support they can muster. The council intends to give public officials their support in conducting safety activities.

The New York State Citizens' Council on Traffic Safety is confident its traffic safety program, based on mutually cooperative efforts of our officials and our business community, will do the job.

Now we'll refer to the Greater New York Safety Council, operating in a metropolitan complex that within its borders counts 8,000,000 citizens and thousands of structures.

In this city are nearly 36,000 business establishments that engage more than 2,000,000 men and women in the production of goods and services.

What happens to any form of

Circle Item No. 69—Reader Service Card

SLIP-ON GUARD



**PREVENTS
FLUORESCENT
LAMPS
from FALLING.**

NO ACCIDENT A
DAY KEEPS THE
DOCTOR AWAY

GETS-A-LITE GUARD and GUIDE

**Quickly and Easily Installed
by Anyone—No
Tools Needed!**

- Simply slip GETS-A-LITE GUARD AND GUIDE over the fixture, as illustrated.
- Made of indestructible spring steel wire. Nothing to break, get out of order or replace. Will last indefinitely.
- Once installed, GETS-A-LITE GUARD AND GUIDE is NEVER removed.
- Nothing to unlock, fuss with or lock, when changing lamps.
- GETS-A-LITE GUARD AND GUIDE actually steers lamp into socket enabling maintenance man to change lamp in 10 seconds!
- Available for 40 watt and 100 watt fluorescent lamps.

GETS-A-LITE CO.—Dept. NSN-1260
1865 N. Milwaukee Ave., Chicago 41, Ill.

Only SAWYER-TOWER offers so many fabrics
Neoprene, Rubber Latex, Neoprene,
Vinyl Coated Nylon, Vinyl Coated Cotton
Calendered and Oiled protective and safety
clothing in so wide a variety of garments
and colors. Send for literature, name of
nearest dealer.



**INDUSTRIAL
COAT
(Full length —
50" to 54")**

SAWYER-TOWER, INC.
Watertown 72, Mass.

Circle Item No. 52—Reader Service Card



contaminants off **FAST!**

HAWS SAFETY SHOWERS send torrents of rushing water from all angles — washing away dangerous irritants in a hurry!

Slap open the conspicuous "Push to Operate" valve. Hard-running streams from 10 adjustable nozzles drench victims in seconds.

You can depend on HAWS for the instant, positive first aid so vital until medical help arrives.

This "Safety on tap" can mean the difference between temporary irritation and permanent injury. Get the facts! Write for HAWS new safety catalog. Do it today!

Valve shown
three-quarters
open.

HAWS DRENCH SHOWERS

a product of
HAWS DRINKING FAUCET COMPANY
1443 Fourth Street • Berkeley 10, California
Export Dept. 19 Columbus Avenue
San Francisco 11, California, U.S.A.

safety programming in New York City will have effects everywhere. Because of this and its concern for the preservation of human life from casualties and disabilities, the Greater New York Safety Council is planning to implement a mandate of its board to establish a pilot project for off-job safety in the central business district of Manhattan.

The resources of New York are not only fiscal. They are strong in "know how" and "know why." Here are the national headquarters of many leading business companies, insurance plants and associations, and university research and training facilities.

In any metropolitan off-the-job safety program this council will strive to be conveyor and coordinator of these resources to demonstrate how skills that produce the safe environment of office and plant in an effective safety-conscious company can be as successful outside of employment and within the community.

The Greater New York Safety Council's off-the-job safety committee is composed of businessmen and safety specialists. They will select a pilot project to stimulate industrial concern for off-job safety.

Basic premises have been explored.

1. The program should be comprehensive, applying safety principles developed in industry to the home, school, clubs, local shopping district, the neighborhood, parks, and churches of the city.

2. The program anticipates development on the job for off-the-job safety results through a systematic campaign of information, meetings, posters, contests, and materials. It will attempt to make the employee as safety conscious a home owner, family man, driver, and pedestrian as he is a worker.

3. The program will begin with one or two pilot projects in a selected business section of the city or in an across-the-board industry campaign.

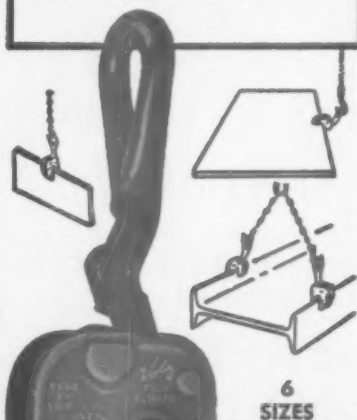
The council will not try to buckshot off-the-job safety throughout the city until the pilot projects have worked out the kinks and shaken down the difficulties of adoption.

Some skyscraper centers are dramatic symbols of modern American industrialism, housing petroleum corporations, heavy and light industry, air transportation, restaurant

YOUR BEST MOVE... MOVE

with **MERRILL**
MATERIAL HANDLING
DEVICES FOR THE MOST
IN *Safety and Economy*

Imitated, but never duplicated, Merrill Lifting Clamps are Drop Forged to give you Safety in Handling and Economy in Operation.



**FEATURING
THIS
MONTH**



LARGE OPENING "G" CLAMP
Designed for lifting and rolling extra heavy and extra thick plates and slabs. Standard 3" ranges to 12". All capacities.

Over 25 Material Handling Devices described in our catalog C-2.

Ask for a copy.

MERRILL BROTHERS

Producers of Drop & Press Forgings

56-28 ARNOLD AVE., MASPETH, N.Y.

THE POSITIVE LADDER SAFETY DEVICE LOCKS-IN-A-NOTCH



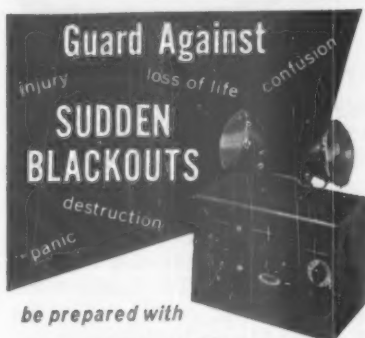
**Prevents death
and injuries
from falling.**

If climber starts to fall, device locks in a deep notch on carrier rail and limits fall to approximately 6 inches — distance between notches.

LOCKS AUTOMATICALLY and INSTANTLY—HOLDS SECURELY

Will catch and hold workman if he starts to fall, even if unconscious. Cannot slip on down ladder. Requires no attention from climber; he climbs in normal manner. Inexpensive. Easy to install; 3 men can clamp it to ordinary ladder in few hours. Clamps to any rung ladder, peg ladder, pole or framework. No welding or cutting. Notched rail hot-dipped galvanized. Entire equipment rust and corrosion proof. Can be kept free of ice by applying heat inside the carrier rail. In use approx. 11 years. Approved by Safety Engineers and Govt. Agencies throughout country. Patented. Manufactured only by

SAFETY TOWER LADDER CO.
1024 Burbank Blvd., P.O. Box 1032
BURBANK, CALIFORNIA



be prepared with

Big Beam AUTOMATIC EMERGENCY LIGHTS

Storage Battery Always Fully Charged—Built-in Charger
Just plug in a BIG BEAM Emergency Light and rest assured that when regular lights fail, your plant or building will be protected automatically with hours of bright, SAFE illumination. Variety of models available.



HAND LAMPS • FLARES

Wide range of hand lamps and flares also available, including Explosion-Proof Hand Lantern, Model 287EX for use in Hazardous Locations, Class 1, Group D. Approved by Underwriters' Laboratories.

Write for Bulletin
on Complete Big Beam Line

U-C-LITE MFG. CO. 1027 W. Hubbard St.
Chicago 22, Ill.

Canada: Bernard Marks & Co., Ltd.
82 Alcorn Ave., Toronto 7, Ont.

Circle Item No. 56—Reader Service Card
National Safety News, December, 1960



Training aid presents off-job and on-job hazards with equal emphasis.

chains, public facilities, and entertainment enterprises.

A cross-section of such tenants might join in a concerted effort to demonstrate that mobilized business and corporate ingenuity which achieved office and plant safety can help make the community safer.

Another prospective candidate for the metropolitan New York pilot project in off-the-job safety is the insurance industry. The "know how" of these great enterprises is now being proposed as a natural for the initial group to bring safety thinking into the community.

Copies of "The Challenge to Management of Off-the-Job Accidents"* are being circulated by the council to member companies in the New York metropolitan region. The request is made that activities undertaken in this particular phase of accident prevention should be shared with the entire metropolitan area. Whatever the beginnings of this program in New York, any single establishment may help guide the emerging program.

If the Greater New York Safety Council succeeds in this undertaking for a comprehensive accident prevention program across an industry or with a cross-section of tenant companies in a particular building center, this type of pilot project may pioneer future developments in the safety movement.

Now, you might be interested in work being done in my company on this challenge. The Bell System plant people have been interested in safety since the first lineman climbed a pole.

As the years went on, safety practices have been included in

*This special 16-page section appeared in the June 1960 NATIONAL SAFETY NEWS, and is also available separately from the National Safety Council. (Stock No. 194.24.)

Metal Standard Signs

CHOICE OF 4 FINISHES

Porcelain Enamel
Reflective Sheeting
Baked Enamel
Fluorescent Colors

Write for catalog and prices.

DANGER
EXPLOSIVES
KEEP OFF



NOTICE
POSITIVELY NO SMOKING
ON THESE PREMISES

KEEP OUT

DANGER
SOUND HORN
BEFORE
PROCEEDING

CAUTION
KEEP
AISLES
CLEAR

**STANDARD SIGNS
INCORPORATED**
3190 EAST 65th STREET
CLEVELAND 27, OHIO

Whatever your needs, you will find greater satisfaction with SAWYER-TOWER protective and safety clothing. More fabrics, more garments, more colors — all competitively priced — assure you of maximum safety and service. Send for literature, name of nearest dealer.



INDUSTRIAL
COAT
(¾ Length —
44")

SAWYER - TOWER, INC.
Watertown 72, Mass.

Circle Item No. 58—Reader Service Card

Why HOWARD JOHNSON'S Specifies WATCHMASTER emergency LIGHTS

A power failure in a Howard Johnson-owned restaurant, located in Boston, Mass., proved the reliability of Watchmaster emergency lights.

Of the five makes of emergency lights installed in this restaurant, only the Watchmaster operated when the power failure occurred. After subsequent testing of every make of emergency lighting, Howard Johnson engineers specified Watchmaster exclusively for all new Howard Johnson installations.



Send for free booklet
"How to Select
Emergency Lighting."



ARPENTER
WATCHMASTER DIVISION
MANUFACTURING COMPANY
4 Bradley Street, Somerville 45, Mass.

Please rush my free, money saving copy of
"How to Select Emergency Lighting" to:

NAME _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

TYPE OF BUSINESS _____

In Canada
Mail Northern Electric Company, Ltd.
Coupon to: 1000 Guy Street, Montreal

every Bell plant operating practice.

Safety supervisors launched a permanent campaign to instill safety awareness into plant people.

Departments other than plant took a look at work injuries and saw the need to do something. Their rates were higher than plant, even though their exposure to hazards was considerably less.

This served to unify the safety effort in our company. Since people are the main cause of accidents, it seemed natural to devise programs to change the habits and behavior of people which cause their injuries.

It was at this time that we started to keep statistics on off-the-job disabling injuries. We learned that 30 people were disabled in off-the-job accidents to every one on-the-job. This applied to men and women in all departments.

Data also showed us that women had twice as many disabling accidents off the job than men. When in 1958 we started to keep system-wide statistics, we learned this pattern was the same throughout the country.

On the system plan we record rate per million exposure hours. In 1958 our rate was 11.26 per million exposure hours, and today it is 9.09.

I'm not saying this is good. It isn't. But what are we doing about it?

First, and very important, we are keeping an accurate record of every injury. This tells us where we were and where we're going. It shows us the area to attack.

We know motor vehicles and slips and falls are involved in 70 per cent of our off-duty injuries. Because of this we are putting emphasis in our on-the-job safety instruction on these hazards.

For example, where we used to give safe driving instruction to only our drivers, we now give safe driving lessons to all our workers through literature, films, and safety meetings.

Where we used to show slip, trip, and fall hazards for on-the-job situations, we now cover this subject throughout a day's activities and seasonally as well.

Where we used to alert only the plant men to electrical hazards, we now alert everyone to all electrical hazards on and off the job. Many

JUSTRITE

...America's
greatest name in
SAFETY CANS and
OILY WASTE CANS



"JUSTRITE" on a safety can or oily waste can is positive assurance of protection. Millions of these carefully designed and engineered cans are in use in thousands of plants all over the United States. Reduce fire hazards due to benzine, oily rags and waste. JUSTRITE Safety Cans are the finest cans for use for flammable or highly volatile liquids. Both types of JUSTRITE cans are Underwriters' Laboratories and insurance companies' approved.



FREE!

Send today for your copy of the bulletin showing the Justrite Safety Benzine Cans, Oily Waste Cans and Plunger Cans.

JUSTRITE
MANUFACTURING COMPANY
2061 NORTH SOUTHPORT AVENUE
CHICAGO 14, ILLINOIS

world's standard of safety since 1906

BOUTON for "the best in Eye Protection"

For WELDING



The Model 690 Bouton Coverspec fits comfortably over prescription frames without light leaks; extends back along the head to protect against back flash; has soft snug fitting leather nose piece; meets Federal Specifications.

For CHEMICAL Hazards



Bouton Model 551 Softsides® goggle has six hooded and screened vents; molds snugly to the face; fits comfortably over prescription frames; permits replacement lenses to snap in and out in seconds.

For IMPACT Hazards



Bouton Model 5900 Plastic Spectacles are comfortable to wear and provide "Pantoscopic" vision. They are hand-somely styled in popular colors, have molded-on temple covers and are available in a complete range of eye and bridge sizes as well as the popular Universal Bridge models. These Spectacles come in plain (without sideshields), with partial sideshields or with full sideshields.

A Goggle For Every Industrial and Sport Need



Write for further information
H. L. BOUTON COMPANY
Buzzards Bay, Massachusetts

Established in 1943

of our people have checked the ground on the home washing machine and other appliances.

One of the media we are using to get safety instruction to our people is a safety code of our own. We call it *Your Code of Safety*.

This material is designed to provide a training aid for use in presenting a safety program and to better enable the supervisor to highlight types of unsafe practices or habits resulting in painful injuries on or off the job.

The compilation of separate bulletins covers cause, effect, first aid, and prevention of injuries. It also concerns personal safety, slips and falls, motor vehicles, electric shock, power tools, hand tools, offices and equipment, fires and burns, home safety, job safety, and recreational safety.

Where the same thing could happen at home as well as on the job, it is covered in the safety code and given to every employee.

Our posters used to depict only job situations. Now posters cover on- and off-the-job situations.

We are showing the films, *Safety Everywhere All the Time* and *Rescue Breathing*, to all employees. You have heard of the Bell System film, *Charlie's Haunt*. This also has been shown to our employees.

Some of our areas have family safety nights. Entire telephone families in a district gather on an evening in a social environment. Here they see safety films, hear a talk on safety in the home, and learn about our safe driving course.

Mom and Dad and the kids get a chance to try their skill on reaction time, depth perception, wide visual and glare acuity, night and glare vision, and steadiness.

We ran a safety essay contest for the children of our employees. They wrote about "What My Dad Does to Avoid Accidents."

A safety coloring book for the young has been developed and distributed to our employees.

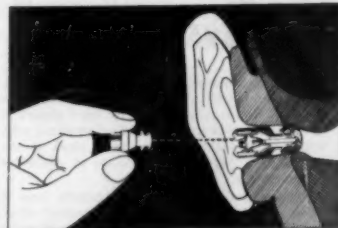
Safety people throughout the company are constantly sending reminders into the home to alert the rest of the employee's family to safety.

One of our areas devised a home safety check list and called it, "Let's Make Safety a Family Affair."

Interdepartmental committees

HARMFUL Effects of NOISE to The Ear Drums ELIMINATED by using

Lee Sonic EAR-VALVS



IT TAKES ONLY 30 SECONDS TO PROVE this. We GUARANTEE IT! These are NOT EAR PLUGS! They are scientifically developed sound controls that protect the eardrums WITHOUT interfering with NORMAL CONVERSATION or HEALTHFUL AIR CIRCULATION.

PROVE-IT-YOURSELF Try a pair for 30 days with no obligation to purchase. Send for trial pair on Company Letterhead.

SIGMA ENGINEERING COMPANY
1491 Vine St., Dept. N, Los Angeles 28, Cal.

For 125 years, SAWYER-TOWER have researched new methods and fabrics to meet changing needs — and they constantly custom manufacture specific garments to meet special requirements, with prompt shipment assured. Send for literature, name of nearest dealer.



INDUSTRIAL SUIT

SAWYER - TOWER, INC.
Watertown 72, Mass.

EYE WASHING FOUNTAIN



SAVE EYES!



Leading industrial doctors advise immediate washing with plenty of running water as the best first aid treatment for any chemical in the eyes. Records prove that washing with water for ten minutes or more, close to the accident, is necessary to reduce or eliminate eye damage.

Forehead operation leaves hands free to open eyelids so water can be directed wherever chemicals might be lodged. Sanitary white baked enamel bowl is resistant to most fumes.

Over 500 industrial plant installations have been made to date.

Write For Details.

VALVE
Chain Operated
Quick Action
Self-Closing

NEW EMERGENCY SHOWER



Instant an accident occurs, to prevent a disfiguring burn—even a fatality.

Special shower head, no holes to clog—can be used where unfiltered water prevails.

Write For Details.

GLASS SLIVERS
AND CHEMICAL
IN EYES!

DISFIGURING
FACIAL CUTS,
AND BURNS!

CUTS AND
CHEMICAL BURNS
ON ARMS /
AND BODY

THIS HAPPENS
WHEN
UNPROTECTED
GLASS BOTTLES
ARE DUMPED



5 PINT
1 GALLON
5 GALLON

are widely used for the safe handling of glass bottles containing harmful chemicals; also the storage and recovery of expensive serums, biologicals, and other costly products.

Painful cuts, disfiguring burns, loss of eyesight, or even a fatality, do result from corrosive liquid splash and flying glass when unprotected bottles shatter.

Write For Details.

BENSON & ASSOCIATES, INC.

P.O. Box 7542 Dept. N.S., Chicago 80, Ill.

have been organized throughout the company, where men and women of all departments are making off-the-job safety their main concern.

Throughout our company the films, *Charlie's Haunt* and *Rescue Breathing*, have been shown in communities to schools, clubs, fire and police departments, rescue squads, and Boy Scout and Girl Scout troops. One area alone bought three extra prints of *Rescue Breathing* because of the demand.

In a few areas the safety specialists give safe driving courses to community clubs. Our lecture bureau is incorporating safety into their talks given to clubs, churches, and civic organizations.

We are always looking for new ways to cope with this problem of off-the-job injuries. We are going to use the package (mentioned earlier) developed by the New York State Citizens' Council on Traffic Safety.

During the 1960 National Safety Congress in Chicago, representatives of the Bell Telephone companies were present with their theme "Safety as a Way of Life—On-the-Job

SAFETY SUPERVISOR

Callery Chemical Company, leader in the field of boron high energy fuel, has an opening for a safety supervisor in its Muskogee, Okla., plant. Applicants must have 5 yrs. of chemical or petro-chemical plant safety experience. Age 25-45. Prefer college graduate. Perform variety of safety functions relative to chemical process plant. Reports to safety engineer, manager safety department. Send resume to Personnel Manager, Callery Chemical Company, Box 1452, Muskogee, Okla.

—In Family Life—On the Highways."

Our employees are providing leadership and experience in safety and first aid in communities throughout the nation. In Junior Achievement we offer, with other industries, counselors for the instruction of young people in the

FOOT-TOE-LEG Protection by "Sankey"

(left) Style #202

Improved FOOT GUARD with full RUBBER SOLE



TOE GUARD→

fills a demand for toe protection in occupations where hazards injurious to toes exist. They fit any shoe, afford maximum toe protection, and like the foot guards do not encase the toe to the discomfort of the worker. (Style #702 illustrated.)



COMBINATION FOOT AND SHIN GUARD (right)

consists of a shin guard fastened to the foot guard in a manner permitting free action of the leg in any direction. Constructed of light but strong aircraft quality aluminum alloy. (Style #400 illustrated.)

For more information write today

ELLWOOD SAFETY APPLIANCE CO.

225 SIXTH ST.—NSC ELLWOOD CITY, PA.

Circle Item No. 70—Reader Service Card



democratic way of doing business in our nation.

Last year one of our employees helped start a Safety Manager of the Year award for the young man with the best safety record and most know-how in organization safety. This is sponsored by the Metropolitan Chapter of the American Society of Safety Engineers in which our safety people take an active part.

Our workers are active in the Greater New York Safety Council and in the safety councils throughout the state.

Most of our employees are aware that having a knowledge of safety is good—also, that it is *not* enough to know this violation or that behavior will cause an accident or what to do about preventing it.

Libraries of industries, safety associations, and safety councils are filled with instructions on how to work safely and with pointers on what to do if we want to be safe on the highways and in the home.

The job today is to take industry safety know-how to every man, woman, and child in our country.

How can this be done?

Isn't it true that if we believe and accept something as part of us, we are willing and anxious to share this knowledge with others?

This is the job of the safety councils, citizens' councils, and industry: To make safety awareness an attribute in as many safety-thinking people as possible.

As an attribute it will radiate by itself to people not yet conscious of the importance of safety-mindedness. When this happens, people who think and act safely will not be doing so for themselves, but for their families, friends, neighbors, and fellow man.

Every Five Minutes

Accidental death visits a home in America every five minutes.

It takes 249 lives every day, 1,750 lives every week, 91,000 lives a year.

This means that while you chat 10 minutes with a friend, two persons may die and 175 be injured in accidents.

Motor vehicle accidents claim a life every 14 minutes.

From *Accident Facts—1960 Edition.*

Circle Item No. 66—Reader Service Card

TO PROMOTE SAFETY . . .

at Work!

on the Road!

at Home!

SAFETY TUMBLERS

by Libbey

BEAUTIFULLY DECORATED IN GOLD



Bulk Pack	6 doz. glasses to carton
\$3.00 doz.	For 6 - 12 doz.
2.90 doz.	" 13 - 24 doz.
2.80 doz.	" 25 - 49 doz.
2.70 doz.	" 50 - 99 doz.
2.60 doz.	" 100 doz. and up
	Sample \$.50 ppd.

ORGANIZATION SERVICES

8259 LIVERNOIS

DETROIT 4, MICH. • TE 4-9020

SAWYER-TOWER garments are famous for their generous cut to assure comfortable fit, relieve stress points, provide longer wear — and for their seam structure . . . stitched for strength, sealed for safety. Send for literature, name of nearest dealer.



LINEMAN'S SUIT

SAWYER - TOWER, INC.
Watertown 72, Mass.

Circle Item No. 67—Reader Service Card



FREE!

New Globe SAFETY GRATING CATALOG

Completely illustrated with full data, load charts and specifications on these two superior open steel floor gratings:

★ SAFETY GRIP-STRUT GRATING

Of one piece construction in Steel, Aluminum and Stainless Steel.

★ GOLD NUGGET WELDED GRATING

I-Beam and Flat Bar construction—projection welded for greater rigidity and strength.

For architects, consulting engineers, plant superintendents, maintenance engineers, safety engineers, contractors, builders—for every safety purpose . . . fire proof, slip proof, maximum strength with minimum weight—cool in summer, warm in winter, self cleaning. A grating for any purpose, any load, any budget.

Write for your free copy TODAY.

PRODUCTS DIVISION THE GLOBE COMPANY

4018 S. Princeton Ave., Chicago 9, Illinois

Circle Item No. 65—Reader Service Card

New SAFETY EQUIPMENT

Product announcements in this section are reviewed for compliance with the advertising policy of the NATIONAL SAFETY NEWS. Inclusion should not, however, be construed as endorsement or approval by the National Safety Council.



New Sonalarm

Sonalarm, Model 160, which operates relay contacts (N.C. or N.O.) at pre-set sound or vibration level, is available. The standard model operates at 70 to 100 db sound pressure level, and

has differential of 2 db. Electronic delay prevents trip on single impact. There is an audio output jack for earphone or power amplifier.

Business applications for the Model 160 Sonalarm are product testing for noise level, intrusion alarms, statistical data gathering, process or machine monitor and control.

H. H. Scott, Inc., 111 Powder Mill Rd., Naynard, Mass. (Item 301)



Lens Aid Station

A lens cleaning station now available provides for cleaning and fogproofing lenses in a single application.

Heavy-duty metal wall cabinet contains two 1-pint bottles of liquid, two spray pumps and one box of 240 tissues. Bottles are of unbreakable plastic.

A spray to each lens cleans off dust, dirt and grime. May be used on glass or plastic.

Cabinet is 5¾ in. by 11¼ in. by 5½ in. deep. Opens for access to contents.

Albert W. Pendergast Safety Equipment Co., Tulip and Longshore Sts., Philadelphia 35, Pa. (Item 302)

Welding Goggles

Two Ajax welding goggles, providing protection against a wide range of eye hazards, are now on the market.

The Airco-Ajax gas welding goggle is recommended for use in gas-welding, cutting, burning and furnace operations, while the Ajax super cover goggle is recom-

mended for wear over spectacles during similar operations. Both types have ventilated side-shields to keep out stray light and metal splashes and are designed to provide adequate ventilation to prevent lens fogging. Headbands are adjustable.

Eye cups for the gas-welding goggle are individually shaped with contoured surfaces. Both goggles are available with shade No. 5 lenses only.

Air Reduction Sales Co., Div. of Air Reduction Co., Inc., 150 E. 42nd St., New York 17, N. Y. (Item 303)



Sticky Safety Soles

An adhesive-backed safety sole designed to give positive footing on almost all surfaces, is applied to any outdoor footwear. Made of resinous abrasives, with a self-adhering back, SHUR-TRED grips tilted or slippery floors, roofs, decks steel work and reduces slipping, skidding on wet, oil-covered or icy surfaces.

The self-adhering back is not affected by water, oil, gasoline. SHUR-TRED is resistant to electricity.

Weather Walker Products, 192 W. Montana Ave., Detroit, Michigan (Item 304)



Straight Shank Stamper

A holder with a straight shank for heavy production straight-line marking, the M-E-CONOMY Holder, is produced for stamping one or two lines of characters.

The holder uses interchangeable slotted steel type, retained by a shepherd pin, for stamping steel bars, billets and other products. The unit can be made for any number of characters in sizes up to ½ in.

The holder is machined from a solid bar of Mecco Safety Steel, for reduction of mushrooming and spalling. The striking end is rounded for safety.

M. E. Cunningham Co., 1025 Chateau St., Pittsburgh 33, Pa. (Item 305)

For More Information—Circle Item Number on Reader Service Postcard



Cleanser Dispenser

A 5-oz plastic tube is the newest in the line of packaging of VI-LAN antiseptic skin cleanser.

VI-LAN cleans hands, face of foreign soils, tars, grease, paint, crater compounds, creosote, printing inks and rubber and gasket cement.

The cleanser may be used with or without water. It has passed clinical patch testing. It has bacteriostatic and bacteriocidal properties and helps prevent infection as it cleans.

The line includes quart and pint cans and aerosol cans. The dispensers include 40-oz. wall type, 96 fluid oz. wall and portable dispensers and a self-service unit equipped with 40-oz. dispensers, wiper brackets and waste disposal bins.

Dameron Enterprises, Inc., Louisville, Ky. (Item 306)



Fume Disposal System

A method for one-step fume disposal, is offered by an integrated instrumentation system providing an automatic, safe operation.

Utilizing metallic-supported catalysts to promote low-temperature oxidation or flameless combustion, the Catalytic Combustion Process converts noxious, hazardous combustible fumes, odors, and vapors from a variety of manufacturing processes to odorless, colorless carbon dioxide and water vapor. As the oxidation reaction occurs there is a release of the latent heat energy contained in the fumes. This heat is often available for heat recovery.

Catalytic Combustion Corp., 4735 14th St., Detroit 8, Michigan (Item 307)



Anti-Flame Fibre

Pyronil "E", an electrical grade of flame-resistant vulcanized fiber, reported with improved dielectric strength and arc resistance, makes it possible to provide protection against electrical fire hazards. Rated non-burning under ASTM procedures D-635 and D-568, Pyronil "E" is intended for use as a combination flame, heat, and dielectric barrier in electrical and electronic equipment. Pyronil "E" in 1/32-in. thickness has a dielectric strength of 215 volts/mil under ASTM test method D-149 and arc resistance of 50 seconds under ASTM test method D-495.

Gray in color, Pyronil "E" is available in rolls, coils, or sheets in thicknesses of .010-in. to 1/16-in.

National Vulcanized Fibre Co., Maryland & Beech, Wilmington, Del. (Item 308)

For More Information—Circle Item Number on Reader Service Postcard

Plastic Fume Exhaust

Solid plastic roof ventilators for removing corrosive fumes incorporate an upblast discharge to blow fumes high into the air, minimizing corrosion to roofs and ground areas, and reducing chances of fumes re-entering the plant. Exposed parts including the housing and impeller are built of Heil Rigidon plastic. The motor is mounted externally. The standard sizes range from 400 cfm to 15,000 cfm.

Heil Process Equipment Corp., 12850 Elmwood Ave., Cleveland 11, Ohio (Item 309)



Communications System

An industrial wired communications system has been developed to provide intelligible communications under noise conditions, including jet-engine type noise.

It utilizes transistorized amplifiers in combination with earphone/microphone headsets to form wearable units for many types of operation requiring wired person-to-person communications.

Two amplifiers are available in the system, one for low to medium background noise conditions, the other for medium to high background noise conditions.

For most applications, the distance between separate units is unlimited, and party-line operations with three or more units working together are possible.

Seiscor Division, Seismograph Service Corp., Box 1590, Tulsa, Oklahoma (Item 310)



Neoprene Gloves

For use where sanitary handling of products and worker hand protection is required, the Pioneer Rubber Company has introduced Stanzoil N-37 Whitecap gloves.

Model N-37 is an addition to the existing Stanzoil Whitecap line of industrial gloves.

The lightweight, flexible gloves made of milled DuPont neoprene—white outside with a red satinized lining—are designed with an embossed, non-slip grip for safe handling of slippery products. The curved, contour design of the fingers and hand areas are designed to eliminate fatigue and provide a comfortable fit.

These milled neoprene gloves are resistant to chemicals, oils, acids, caustics, solvents, greases, oxidation and ozone cracking.

Available in small, medium, and large sizes, they are 10½-in. long.

Pioneer Rubber Co., 1939 Tiffin Road, Willard, Ohio (Item 311)



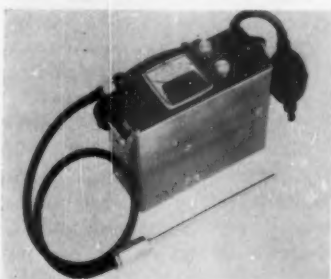
Phosphate Buffer

First aid action against chemical irritants is the aim of a dispensary package for NEUTRALIZE, a phosphate buffer that inactivates effects of chemicals in the eyes and on the skin. This product is packaged in individual 4-oz plastic squeeze bottles, six to

a carton.

NEUTRALIZE contains a bacterial inhibitor and acts to remove the harmful chemical agents in the eyes or on the skin or clothing.

E. D. Bullard Co., 2680 Bridgeway, Sausalito, Calif. (Item 312)



Gas Detector

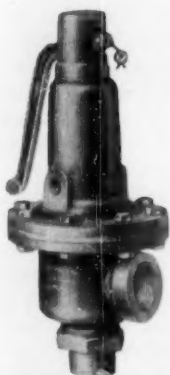
A combustible gas detector, the Model SS, will detect combustible gases and toxic vapors, such as toluene and xylene, in concentrations

far below the accepted MAC limits.

The unit can be used in arson investigations to establish that kerosene or other flammable liquid was used to set a fire, and in controlling quality by detecting concentrations of organic vapors given off during the processing materials.

The Model SS is portable and has a rechargeable nickel-cadmium battery. It comes with hose and probe for taking samples.

Johnson-Williams, Inc., Box 307, Station A, Palo Alto, Calif. (Item 313)



Corrosion Resistant Valve

A sensitive diaphragm relief valve for service where corrosive chemicals are a problem, the Farris 1000 Series diaphragm relief valve provides a vapor tight seal to prevent leakage and eliminate waste. The valve's spring and guides are isolated from the process fluid to avoid corrosion problems.

A choice of materials includes:

Type 316 Stainless Steel, Bronze and Hastelloy "C" for valve body; neoprene, molded Kel-F or stainless steel for diaphragm and disc. Sizes include 1/2 in., 3/4 in., 1 in., 1 1/4 in., 1 1/2 in., and 2 in. Cap construction includes plain, packed and open lever types. Connections are screwed or flanged. It may be mounted in horizontal or vertical position.

Farris Engineering Corp., Commercial Ave., Palisades Park, N. J. (Item 314)

For More Information—Circle Item

Strain Saving Wrench

Strains and bruises resulting from trying to loosen frozen nuts with wrenches are claimed to be reduced with a power impact wrench called "Swench." The wrench is said to simplify freeing stubborn nuts.

As the handle is moved through an arc, spring tension is built up. This tension is released as a twisting force on the nut when the predetermined arc is completed. The impact may be repeated as many times as desired.

The tool is made of alloy steel and chrome finished. Three models are available, furnishing up to 7000 foot lbs. of torque on frozen nuts.

Marquette Div., Curtiss Wright Corp., 1145 Galewood Drive, Cleveland 10, Ohio (Item 315)



Drench Shower

A emergency drench shower assembly with a ratchet-type quick-opening valve requires a short pull on the valve chain to release a deluge of water at 34 gpm (at less than 40 lbs. pressure). It continues to flood the contaminated person until the chain is pulled again.

The valve is designed to eliminate valve drift which might cut the flow of water in an emergency.

The shower head is satin chrome finish cast brass with a 10 inch diameter adjustable face.

Two models are available. Model 8161-H for horizontal water supply, and Model 8161-V for vertical water supply. Functional parts of both models are made of corrosion-resistant red brass. Spring is stainless steel.

Haws Drinking Faucet Co., 4th and Page Sts., Berkeley 10, Calif. (Item 316)



Glove Dispenser

A dispenser for Wil-Gard Poly-D (polyethylene disposable) Gloves contains 72 gloves, each mounted lightly on paper for removal from the box, are included in each dispenser. The paper on which gloves are mounted can be used to dispose of the gloves.

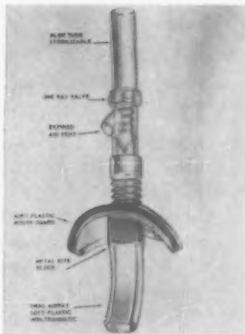
Built-in adhesive holds dispenser in place on wall, without nails. Metal eyelet on the tab is available for nails.

Wil-Gard clear polyethylene, five-fingered disposable gloves offer convenient hand protection. They are pre-powdered with Bio-Sorb for slipping them on or off.

Available in light and heavy weights, Poly-D Gloves come in small, medium or large sizes—one weight and one size to a dispenser package.

Wilson Rubber Co., Industrial Div., 1200 Garfield Ave., S. W., Canton 6, Ohio (Item 317)

Number on Reader Service Postcard



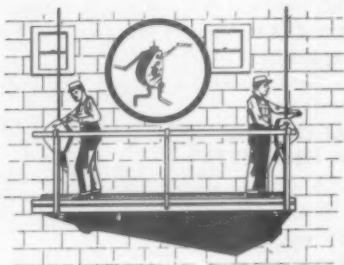
Resuscitation Airway

The No. 1 Brook Airway resuscitator for home or industry is designed for simplicity of operation and health protection.

A non-return valve and expired air vent are incorporated. Should the victim exhale air or moisture, these are not passed to the mouth of the rescuer.

The blowtube on the device is removable for cleaning and sterilizing with soap and hot water. Extra blowtubes are available.

Willson Products Div. Ray-O-Vac Co., 2nd & Washington Sts., Reading, Pa. (Item 318)



Suspended Scaffold

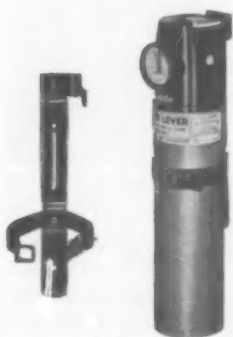
Distribution for the first time in the U. S. of the "LAHO" Suspended Cable Scaffold Outfit has been announced. The outfit has been in use

in Europe for two decades.

The cable drum and mechanism are enclosed in a housing to prevent chips, dirt, and paint from dropping into the gears. A dual bicycle type winding handle combination enables winding up or down.

The aeronautic steel cable is claimed to carry a 1100 lb. load without slipping. The LAHO is Underwriters approved.

Newark Ladder & Bracket Co., Inc., Clark, New Jersey (Item 319)



Extinguisher Bracket

A firm grip clamping band bracket with automatic unlock feature for Kidde 2 1/2-lb. pressurized dry chemical portable extinguisher has been introduced.

The bracket has a built-in projection which locks the valve against accidental discharge. A second guard against accidental discharge is a metal

lip that passes under the actuating lever when the extinguisher is in its bracket. When the extinguisher is removed from its bracket, it is automatically unlocked, ready for action without pulling a locking pin.

The bracket's toggle release device permits the extinguisher to be freed of the bracket with a slight pull.

Walter Kidde & Co., Inc., 145 Main St., Belleville 9, N. J. (Item 320)

For More Information—Circle Item Number on Reader Service Postcard

National Safety News, December, 1960



Face Mask Speaker

A speaking device, called the VOICE-PAK, is designed for use with protective breathing equipment.

Voice is transmitted through a microphone to a protected, waterproof speaker attached to the belt. The unit is transistorized. It comes with pen-

light type batteries, Scottoramic mask with nose-cup, breathing tube and regulator coupling.

The unit is designed to enable emergency crews, maintenance men and technicians to communicate while wearing mask equipment even under noisy conditions. The unit fits Scott AIR-PACKS.

Scott Aviation Corp., 211 Erie Street, Lancaster, N. Y. (Item 321)



Fusible Link Cleaner

A fusible link in the cover of an automatic parts cleaner reportedly minimizes fire hazard.

The unit, called the KLEER-FLO Model 25 Cleanmaster Jet, Jr., is a bench model which cleans by soaking, multi jet turbulence, or continuous flow through flexible hose.

Also featured is a throw-

away screw-in cartridge filter.

The pump motor is housed in an aluminum casting to minimize spark ignition of solvents.

Practical Mfg. Co., 2840 4th Avenue, Minneapolis 8, Minn. (Item 322)

Boom Alarm System

Mounted on the boom or high point of boom equipment, the SigAlarm Model TR-1 sensor registers the proximity of the electrostatic field associated with power lines. The alarm unit, controlled by a variable range control sensitive from one foot to several hundred feet, actuates the self-contained bell in addition to setting brakes and stopping movement of the rig's boom.

As the pre-set range is approached, the alarm will sound intermittently, indicating near violation of the safety limit.

The unit is powered by an internal battery. Battery failure will cause actuation of the alarm which operates on external voltages from the boom rig itself.

A meter for constant indication of the condition of the TR-1 battery, as well as a test circuit and a power-on indicator light are provided to help prevent operator negligence. Circuitry is transistorized, drawing less than one milliamp.

Wintronics, 213 S. Hawthorne Blvd., Hawthorne, Calif. (Item 323)



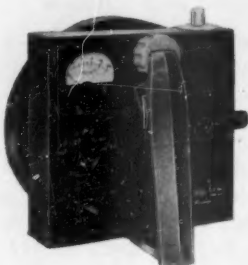
Inspection Ladder

An Alco-Lite Tank Inspection Ladder has been added to the manufacturer's line of industrial specialty ladders. It is an extension type stepladder fitted with an aluminum platform, with a protective guard rail and locking chain on one side. The rail across the front

is hinged to afford access to the platform. Step and platform surfaces are of non-skid design. The ladder extends from 8 to 13 ft.

Made of high tensile strength aluminum alloy, it is non-sparking and can be used around flammable materials. Fitted with automatic locks, rope and pulley, it is also available with rung-type steps.

Aluminum Ladder Co., Dept. S47, West Darlington St., Ext., Florence, S. C. (Item 324)



Radiation Meter

A lightweight self-contained instrument for making power density measurements of radar and transmitting equipment was announced at the fourth Annual Tri-Service Conference on the Biological Effects of Microwave Radi-

ation, sponsored by the U. S. Air Force Research and Development Command.

Model B86L1 Sperry Electro-Magnetic Radiation Meter has applications including: the determination of power densities for the protection of service personnel and equipment; detection of leakage in shielded areas, waveguides and equipment enclosures; measurement of field intensity patterns of radar and similar types of antennas.

Utilizing self-contained battery power, self-calibration standard, and built-in antenna, the unit is not affected by overload and meets requirements of MIL-T-945.

Measuring 8½ in. by 7¼ in. by 7 in., the meter weighs 5 lbs.

Sperry Microwave Electronics Co., Division of Sperry-Rand, Clearwater, Fla. (Item 325)



Alarm System

A model of the Autocall Type TFW3B provides features used in security systems,

plus flush mounting to blend with modern functional architecture. The system provides fire alarm, patrol report, emergency, guard call and communications functions.

The Autocall Co., Shelby, Ohio (Item 326)

For More Information—Circle Item Number on Reader Service Postcard



Aid Kit

A first aid kit has been built around the LIF-O-GEN Oxygen Inhalant. The kit's contents include dressings and medications for emergency use.

The inhalant can be used with the disposable face

mask provided, and contains about 7 gal. U.S.P. oxygen (enough for 24 minutes when used intermittently). An extra mask is included.

The kit is housed in a 20-gauge steel fitted with a gasket to make it moisture- and dust-proof, and is fitted with a handle and two pull down snaps for closing. The unit, designated Kit No. 75, can be wall-mounted on keyhole brackets.

Finish is baked green enamel to denote medical oxygen.

A. E. Halperin & Co., Inc., 75 Northampton St., Boston 18, Mass. (Item 327)



Work Rubbers

"PACK-A-WAY" is a lightweight, flexible, work rubber made to go over work shoes.

It has corrugated pliable shank which stretches so the overshoe fits over any type of work shoe. Made of amber translucent material that is

durable and washable, it has anti-skid sole for working on slippery surfaces.

It comes in four sizes—extra large to fit men's work shoes 12 to 14, large to fit 10 to 12, medium to fit 8 to 10 and small to fit 6 to 8.

United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y. (Item 328)



Go-Jo Dispenser

The Go-Jo Heavy Duty Dispenser has been redesigned to reduce waste. One pull of handle delivers the proper amount of cleaner for clean-up.

Printed in red and blue on a gray tweed-like background, the Go-Jo Dispenser's package has been designed to blend with the dispenser.

Gojer, Inc., Box 911, Akron, Ohio (Item 329)

Korfund Co. Inc.

The Korfund Co. Inc., specialists in vibration and noise control, has moved from Long Island City to a new plant in Westbury, N. Y., at the edge of a high-



speed, four-lane highway. The plant is less than 30 minutes from Manhattan, is equipped with new laboratories for applied and pure research.



John B. Russell

Gamewell Co.

The Gamewell Company announces the assignment of John B. Russell as sales engineer for Connecticut.

The Gamewell Co., a subsidiary of E. W. Bliss Co., manufactures municipal and industrial fire alarm systems, police systems and precision electro-mechanical equipment.

Mr. Russell was graduated from Union College, Schenectady, New York, with a B. S. in Electrical Engineering. He has attended electrical courses at Rensselaer Polytechnic Institute, Harvard University and M. I. T. He has been with Gamewell since 1957 as assistant to the industrial sales manager.



John T. Monahan

American Optical Co.

Appointment of John T. Monahan as general manager of the safety products division has been announced by American Optical Company. He replaces Charles H. Gallaway, vice president and general manager, who is retiring from active operational management.

Monahan was graduated from Holy Cross College with both a Bachelor and Master of Science degree. He later received a certificate in industrial engineering from Worcester Polytechnic Institute.

Monahan joined American Optical at Southbridge in 1944 as a development engineer.

American LaFrance

T. Sloane Palmer is appointed advertising manager, fire protection equipment, at American LaFrance, a division of Sterling Precision Corp.

Palmer was formerly vice-president of Comstock & Co., president of the Niagara Frontier Advertisers Assn., and national director of the Association of Industrial Advertisers.



Richard E. Miller

Mine Safety Appliances

Appointment of Richard E. Miller as product line manager for eye and face protection equipment has been announced by Mine Safety Appliances Co., Pittsburgh.

Miller will supervise sales of the company's new Sight-guard line of spectacles, goggles, and similar products.

A resident of New York City, Mr. Miller was graduated from Manhattan College in 1950 with a bachelor of science degree.

American Allsafe Co. Inc.

Lee C. Churchill, general sales manager of American Allsafe Co. Inc. has announced an expansion program including the opening of an office and warehouse in Rochester and addition of four service and sales representatives in western New York.

The program includes the



Francis R. Sterry

promotion of Francis R. Sterry from purchasing agent to service and sales representative for Niagara and Orleans counties. Sterry has been with the company for the past 20 years and in his capacity as purchasing agent was an active member of the Purchasing Agents Association.



Richard R. Zimmer

Joining the company as



John D. Fyfe



Michael F. Gingo

service and sales representative for western New York are Richard R. Zimmer and John D. Fyfe. Zimmer has been associated with Remington Rand and other major Buffalo industries. Fyfe has been associated with Moore Business Forms and other western New York sales organizations.

A new Rochester office and warehouse will be under the direction of Michael F. Gingo of Rochester, an expert on safety equipment and devices.

Coppus Engineering Corp.

Werlla and Co., 3402 Mercer, Houston, Tex., has been appointed district representative for Coppus Engineering Corp., manufacturers of Sentry valves, industrial ventilating blowers and man-cooling fans.



TRADE PUBLICATIONS

These trade publications will keep you up-to-the-minute on new developments in safety equipment and health products. All catalogs are free, and will be sent without obligation. Just circle publication number on the Reader Service Postcard.

Concrete Floors

The features of Masterplate "iron-clad" concrete floors are detailed in this 24-page Master Builders Company bulletin. Factors in the design of heavily-used industrial floors are covered. They include: wear and corrosion resistance, economy, spark resistance, static dissemination, color and non-dusting, slip-resistance, easy-to-clean surfaces. Facilities where Masterplate concrete floors have been installed are shown with photographs, diagrams and explanations of installation procedures. The Master Builders Co., Cleveland 18, Ohio.

For more details circle No. 400
on enclosed return postal card.

Glove Care

Charleston Rubber Company's illustrated "Help Yourself" Glove Care Poster, has been reprinted and is now available free on request. Printed in two colors on heavy, enameled cardboard. Designed to aid in the care and protection of linemen's rubber gloves and sleeves and thereby help protect those who use them. 18"x22" in size. Topics stressed on poster are "How to inspect gloves for holes or damage," "Practices you should avoid," and "Practices you should follow." Charleston Rubber Co., 16 Stark Industrial Park, Charleston, S.C.

For more details circle No. 401
on enclosed return postal card.

Air Conditioning

A new line of packaged central station air conditioning units, featuring a complete selection of air filters, has been introduced by American Air Filter Co., Inc., 215 Central Avenue, Louisville 8, Kentucky. These units offer a package where all components, including fans, coils, humidifiers, dampers, filters, frame and casing are designed, fabricated and tested by one manufacturer. For the first time, a selection of both unit and automatic filters is available as preselected and matched components of an air conditioning unit. These air conditioning units are available in 14 basic sizes, with 24 different arrangements per size. From 500 cfm to 36,000 cfm.

For more details circle No. 402
on enclosed return postal card.

Electrical Products

A 4-page bulletin on connectors, receptacles, switches and lighting products for industry has been published by Joy Manufacturing Co., Electrical Products Div., 1201 Macklind Ave., St. Louis 10, Mo. Included in the bulletin are illustrations, specifications and suggested applications for standard and custom-built electrical connectors. Also featured are general descriptions of lighting products, including lamps, sockets and connectors, information on push-button switches in 2, 4 and 6 button and toggle-switch styles, and cable vulcanizers, both stationary and portable types.

For more details circle No. 403
on enclosed return postal card.

Wire Cloth

The Cambridge Wire Cloth Co., Cambridge, Md., manufacturers of industrial grades of wire cloth and wire cloth fabrications and metal-mesh conveyor belts has issued two six-page bulletins describing its products. Bulletin #115 describes and illustrates the various types and grades of industrial wire cloth available. Also contained is a complete listing of trade definitions to help the reader understand the terms most frequently used in the specification of wire cloth. Bulletin #116 describes and illustrates typical specifications of metal-mesh conveyor belts and also shows a number of actual installations.

For more details circle No. 404
on enclosed return postal card.

Construction Equipment

Le Roi Division, Westinghouse Air Brake Co., Sidney, Ohio has a 12-page bulletin with product information for the mining, construction and quarrying industries. Included is information on the "Trac-Newmatic," a self-propelled blast-hole drill, as well as specifications for stationary compressors from 25 to 100 horsepower. The dust collector and line oiler as well as the portable Tractair compressor line are included together with a description of air tools.

For more details circle No. 405
on enclosed return postal card.

Radiography Cameras

Now available from Radionics Inc., LaFayette and Water Streets, Norristown, Pa., is information on their cobalt 60 panoramic radiography cameras. Included in the bulletin is a brief description on the use of cobalt 60 in comparison to x-ray. Details of the construction, operation and complete specifications of each model is given.

For more details circle No. 406
on enclosed return postal card.

Air Sampling

This 44-page catalog describes the air sampling, health physics, physical testing and filtering equipment manufactured by Gelman Instrument Co., 106 N. Main St., Chelsea, Mich. Featured is the 2-speed Hurricane Sampler which recently completed field trials and is being offered for the first time. Developed to sample a large volume of air in a short period of time, such as testing for some radioactive dusts and highly toxic materials as beryllium.

For more details circle No. 407
on enclosed return postal card.

Air Purifier

Equipment to destroy vermin through negative ionization of the air is manufactured by Vita-Aire Process Co., 1736 N. 2nd St., Milwaukee 12, Wis. Using ultra-violet rays, machines generate negative ions which rapidly oxidize and destroy air impurities such as odors, smoke, mildew, mold and air-borne bacteria. Typical installations are manufacturing plants, food processing plants, service establishments, retail and wholesale outlets.

For more details circle No. 408
on enclosed return postal card.

Radiation Meters

Bulletin G-3 features the latest portable model radiation survey meters for medical laboratory use offered by Nuclear Measurements Corp., 2460 N. Arlington Ave., Indianapolis 18, Ind. Shown are two geiger counters sensitive to beta and gamma radiation, and one geiger counter sensitive to soft x-ray, alpha and beta radiation. Dimensions of each model are 3 1/4"x6 1/2"x7 1/2", and weight 4 3/4 lbs.

For more details circle No. 409
on enclosed return postal card.

Custom-Produced Glass

This 20-page brochure describes the Kopp Glass engineering and manufacturing service from application analysis and formula development through mold design and custom-production. Included are color photos of products used in street and highway traffic control; aviation, railroad and marine signaling; street and interior lighting; dental and surgical lighting equipment; as well as industrial globes, indicator lenses and color filters. Special sections deal with developing glass compositions for individual applications; controlling and combining the properties of glass; engineering products with specific characteristics such as accurate and uniform colors, the right distribution of light, high physical strength and thermal shock resistance; custom-production techniques; finishing operations that meet specialized needs; and testing and inspection. Kopp Glass, Inc., Swissvale, Pa.

For more details circle No. 410
on enclosed return postal card.

Flexible Hose

Universal Metal Hose Co., 2133 S. Kedzie Ave., Chicago 23, Ill., has information available on their flexible hose used to convey gases, solids and fluids; for vibration control; and to compensate for motion or misalignment under high temperature, pressure, vacuum or abrasive conditions. Detailed descriptions, specifications, and applications together with coupling recommendations are given for each model.

For more details circle No. 411
on enclosed return postal card.

Fiberglass Reinforced Ladders

Putnam Rolling Ladder Co., Inc., 32 Howard Street, New York 13, N.Y., has literature available on their fiberglass reinforced ladders, both step and extension. Said to give the advantages of lightweight strength of metal with the non-conducting qualities of fiberglass reinforced plastic materials. The ladders feature oval shape for ease of handling, steel end cap, yellow safety color, smooth surface.

For more details circle No. 412 on enclosed return postal card.

Self-Grounding Power Connectors

A 16-page catalog has been issued by the A.P.M. Corporation, 252 Hawthorne Ave., Yonkers, N.Y. Among the products listed are automatic self-grounding power connectors. These flat, armored connectors have a polarized grounding blade with a chisel edge. When inserted into a standard 2-hole receptacle, the spring loaded pivotally connected grounding blade deflects to one side, and the chisel-scraper makes a grounding contact with the faceplate of the receptacle. When inserted into a 3-hole receptacle, the automatic blade registers with the grounding hole.

For more details circle No. 413 on enclosed return postal card.

Sound Control

Increased efficiency and productivity with "Sound Control" is now illustrated in a twelve page catalog published by the Allied Witan Co., 12500 Bellaire Road, Cleveland 35, Ohio. Illustrated are typical sound control applications with graphs showing reduction of noise in decibels, and reduction of noise distinguished by the human ear. Described are typical applications of the silencers and diffusers on guidance ground equipment, aircraft components, marine components and air motors, along with welding, foundry, presses, tools and assembly equipment.

For more details circle No. 414 on enclosed return postal card.

Conference Recorder

Miles Reproducer Co., Inc., 812 Broadway, New York 3, N.Y. has introduced a self-powered briefcase conference recorders which is said to pick up and record voice within a 60-foot radius, screening interference such as typing, coughing, air-conditioners, traffic, etc. Designed for recording conferences, lectures, interviews, sales training, reports, investigations, dictation, 2-way telephone, etc. Operating from standard dry batteries and recording up to 4 hours on each side of a non-flammable, safety belt. Recordings are permanent, non-magnetic and non-erasable.

For more details circle No. 415 on enclosed return postal card.

Pneumatic Handling Systems

Bulletin 7-149 released by the Presray Corp., Pawling, N.Y. describes the conception, design and manufacture of specialized pneumatic handling devices. Since handling problems vary, individualized technical service is stressed. The principle of Pneuma-Grip and typical uses in the industrial field are illustrated, as well as specific industrial applications.

For more details circle No. 416 on enclosed return postal card.

Rubber Protective Equipment

Charleston Rubber Company, 16 Stark Industrial Park, Charleston, S. C., has issued a 24-page, illustrated Industrial Protective Equipment Catalog. Described is their complete line of protective products.

Emphasis is on the company's "Neo-Sol" and "Sensi-Touch" neoprene rubber and "Hy-Sol" Buna N synthetic rubber gloves. Also contained in this catalog is a valuable chemical reference chart and a chart to help select the proper glove, length, thickness, finish and size. Also important suggestions as to the proper use and care to insure longer life of industrial gloves.

For more details circle No. 417 on enclosed return postal card.

• Nonslip grip

• Washability

• Superior finger dexterity

• Outstanding abrasion resistance

• Exceptional wear and tear resistance



NEW!

Plastic-impregnated Cromac® gloves by Jomac
that give unique 5-point glove performance

FREE SAMPLE PAIR will convince you . . . Cromac gloves by Jomac are all we say they are and more. Write Department D, Jomac Inc., Philadelphia 38, Pa.

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• Advertised Products

Here's how it works—

Printed below are two identical Reader Service postcards—the bottom one for your use; the top one for use by any other reader of this issue. All Advertisements, New Safety Equipment announce-

• New Safety Equipment

• Trade Literature

ments, Trade Publication listings carry item numbers corresponding to the numbers printed on the cards. Just circle the numbers of the items you want to know more about and send us the postage-free card. We'll have the full information or sample copies sent to you—without obligation.

Advertised Products

—feature equipment and services that will help you solve accident problems in your plant. Instead of making a "mental note," make sure you get full information by sending in the card. If no item number appears with an ad, it will be found on the opposite page, next to the arrow. Cover position ads are shown on the cards as: IFC—inside front cover; IBC—inside back cover; BC—back cover.

New Safety Equipment

—shown in the special section has been carefully reviewed. Only new products or noteworthy improvements in existing equipment are considered eligible for this section.

Trade Publications

—are catalogs, brochures, spec sheets and booklets—a wealth of helpful literature—describing equipment and services that will assist you in comparing before you buy. You can build a valuable safety equipment reference file with these free publications.

IMPORTANT—Be sure to fill in your name, organization and address in the space provided on this side of the postcard.

National Safety News
December, 1960

use the cards below to get more information on products advertised, new safety equipment, and new trade literature . . .

Please send me more information on the items circled below:

PRODUCTS ADVERTISED:

IPC	IBC	BC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97
98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122

NEW SAFETY EQUIPMENT:

301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325
326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350

TRADE PUBLICATIONS

400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424
425	426	427	428	429	430	431	432	433																

(Please print your name and address in full — do not abbreviate)

NAME _____ POSITION _____

COMPANY _____

ADDRESS _____ CITY & STATE _____

DECEMBER, 1960

(Good until February 28, 1961)

Please send me more information on the items circled below:

PRODUCTS ADVERTISED:

IPC	IBC	BC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
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48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97
98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122

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326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350

TRADE PUBLICATIONS

400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424
425	426	427	428	429	430	431	432	433																

(Please print your name and address in full — do not abbreviate)

NAME _____ POSITION _____

COMPANY _____

ADDRESS _____ CITY & STATE _____

DECEMBER, 1960

(Good until February 28, 1961)

The advertising pages of the News

... your guide to products of importance
and help to your plant safety program

Keep up-to-the-minute on all the latest advances in industrial safety products and services through the advertising pages and new safety equipment features in the NATIONAL SAFETY NEWS.

Should you want additional information or special consultation on your specific problems, don't hesitate to write to the manufacturers. They welcome your inquiries and will answer your questions without obligation.

Although the Council does not test or examine the products advertised or mentioned in the editorial features, staff engineers and technicians review all product information in an effort to determine that descriptions and performance claims are accurate. It should not be construed, however, that commercial products are approved or endorsed by the National Safety Council.

FIRST CLASS
PERMIT No. 834
CHICAGO, ILL.

BUSINESS REPLY CARD

No Postage Stamp Necessary If Mailed in the United States

5c — POSTAGE WILL BE PAID BY —

Reader Service Department

NATIONAL SAFETY NEWS

425 NORTH MICHIGAN AVENUE

CHICAGO 11, ILLINOIS

FIRST CLASS
PERMIT No. 834
CHICAGO, ILL.

BUSINESS REPLY CARD

No Postage Stamp Necessary If Mailed in the United States

5c — POSTAGE WILL BE PAID BY —

Reader Service Department

NATIONAL SAFETY NEWS

425 NORTH MICHIGAN AVENUE

CHICAGO 11, ILLINOIS

Before you mail your
Reader Service
postcard ...

TAKE
ANOTHER
LOOK
AT

- the ADVERTISING pages
- the NEW SAFETY EQUIPMENT section
- the TRADE PUBLICATION section

Make sure all the items you want to know more about are circled ... check to make sure your name, organization, and address are printed on the reverse side of the postcard ... THEN mail it today.

National Safety News
December, 1960

Designed to further simplify your Safety Glass inventory

NOW

Get

1 FRAME
with
2 UNIVERSAL FEATURES...



New CESCO Polyfit Bridge and New CESCO Interchangeable Temples

• Here's how to go all the way in simplifying inventory with a single safety glass that will fit the vast majority of your workers. New CESCO Polyfit frames have not one but two features to make them adaptable to the widest range of nose and facial contours. New Polyfit bridge design is amazingly comfortable on most individuals—thus eliminating the need to carry a large inventory of bridge sizes.

But in addition, CESCO Polyfit frames also feature gleaming nickel-silver temples which are interchangeable with other CESCO plastic frame glasses or with most safety glasses equipped with 5-barrel hinges—regardless of color. Sur-Loc pins fasten temples to frame. Tapered temples come in two styles—cable or spatula. Polyfit frames in flesh tone plastic are available with or without side shields.

- Your choice of two sizes: No. 316 (46 x 39mm), No. 318 (48 x 41mm)
- Popular F7 shape lenses are removable for easy "on-the-spot" repair

*Ask your distributor to show you the New CESCO Polyfit safety glasses
He'll also be happy to introduce you to the complete line of CESCO head and eye protective equipment
There's a CESCO distributor located in most major cities*



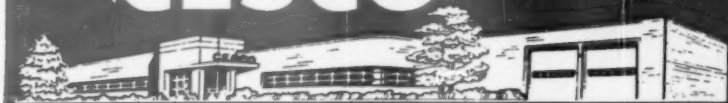
WITH SIDE SHIELDS

For total enclosure protection, CESCO Polyfit frames also come equipped with perforated plastic side shields. They offer the same outstanding features as the spectacles described above.

- Two Sizes: No. 3165 (46 x 39mm), No. 3185 (48 x 41mm)



CESCO FOR SAFETY



CHICAGO EYE WARE COMPANY
3725 N. Racine Street, Chicago 18, Illinois

Circle Item No. IBC—Reader Service Card

New Safety-Lock Tab • Improved Cup Shape Add Increased Protection and Comfort to AO Flexible Mask Goggles



Here are four improvements that make these new AO Vinylite Mask Goggles safer to use, more comfortable to wear:

- 1** New lock tab, with snap button, holds lens securely to frame at point of greatest stress, improves fit around entire frame. Lens will not pop out, but can be removed quickly and easily for cleaning or replacement.
- 2** New recessed slots at end of cup fit over and around temples of safety (or regular) glasses to keep entire cup edges in contact with face.
- 3** Increased eye cup depth gives additional coverage and protection at temples.

- 4** Improved flash around entire edge of mask molds to contours of face.

Lightweight, well-ventilated, extra-large face mask and .050" thick acetate lens assure the wearer of comfortable, optically correct, wide-angle vision while protecting entire eye area.

Your nearest AO Safety Products Representative now has this improved new model in impact goggles, chemical goggles, welding goggles, or chipping and grinding goggles, as well as two special models for maximum protection against chemical splash. Contact him today, or write for detailed folder, S-1229.

Your Surest Protection... AO SURE-GUARD GOGGLES

American  Optical
COMPANY

SAFETY PRODUCTS DIVISION • SOUTHBRIDGE, MASSACHUSETTS

Circle Item No. BC—Reader Service Card

